THE CHEMIST AND DRUGGIST

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Says a Chemist who has consistently displayed the "Glaxo Monthly Message to Mothers" in his shop window:—"*Since I have been regularly receiving the Monthly Message my Glaxo Sales have nearly trebled.*" The "Glaxo Monthly Message to Mothers" was originated seven months ago to help chemists not only to sell Glaxo, but also other articles stocked for "The chemist's best customer—BABY," and incidentally to link up progressive pharmacies with Glaxo national advertising. The Monthly Message is freshly designed each month, is printed in colours, and is posted direct to chemists at the commencement of each month. It is gummed ready for fixing. That it has successfully fulfilled its mission is evidenced by the opinions of various chemists which are quoted on this page. If you do not already display the Monthly Message tell us how many you need, and your copy or copies will come to you post free every month.

Some Chemists' Opinions of this Glaxo "Sales Help."

"It has obviously augmented my demand for Glaxo."
"My sales are rapidly increasing."
"Stimulates profitable sales."
"Brings good business."
"Very profitable to me as a salesman."
"People read and comment on it."
"It helps to sell a good and profitable line."
"Something new every month attracts attention thereby stimulating interest. Interest created in possible customers is half a sale."
"My customers like to read the Messages."
"Sales have increased 200%."
"Sales splendid."
"Creates great demand for Glaxo and everything conducive to Baby's comfort and progress."
"Increases sale of Glaxo, thereby brings more customers in shop."
"Customers are interested—sales increasing."
"It appeals to the right people. Useful during milk shortage."
"It creates sales for an article which gives satisfaction."



A reduced illustration of the "Glaxo Monthly Message to Mothers" for January, 1920. The original is printed in colours and measures 15 in. x 10 in.

Reasons why the Monthly Message is mutually helpful.

"It establishes a bond of friendship between us and the buyer."
"Brings people into shop, who always need something beside Glaxo."
"I consider it a real sales getter both for Glaxo and other articles."
"You consistently *push* the pharmacist."
"A decided help in our mutual interests."
"It has proved a 'seller.' We both benefit."
"(1) It sells Glaxo. (2) It advertises and sells other lines also. (3) It forms a novel, attractive and effective advertisement."
"Mothers appreciate the advice and become regular customers."
"It helps my sales and makes new customers."
"It is a real help in sales of Glaxo and other Baby goods."
It is 'out of the rut' of ordinary advertising. It interests the public. It sells the goods."
"It is to our mutual advantage—Glaxo is becoming a household word."
"It links up our pharmacies with a real, live advertising campaign."

The Glaxo Monthly Message to Mothers

will be sent you post free every month—until discontinued—if you will undertake to display it prominently in your shop window.

SEND A POST CARD TO-DAY stating the number you can display to the Sales Manager, Glaxo, 155 Great Portland Street, London, W.1

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A superior tonic and hygienic Shampoo at a popular price. Packed in dainty slide cartons. Elegant in appearance and delightful in use. Perfumed with Irish Elegance. Counter boxes supplied.

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We challenge comparison between the perfume made from "Distol" Carnation and any other Carnation perfume at whatever price.

Carnation "Distol" is not only absolutely true to type and very lasting, but it is also most economical for the Pharmacist, as the spirit used may be replaced by water up to 50% of the total diluent without sacrificing its distinctive charm.

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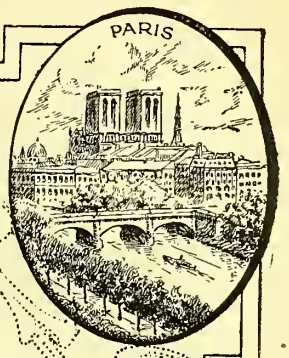
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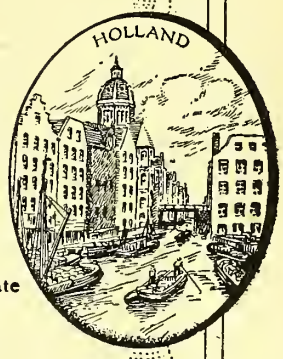






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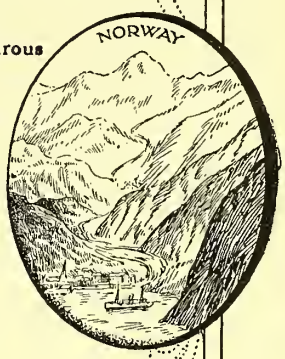


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Methyl Salicylate
Metol
Paraldehyde
Peppermint Oil
Pepsine
Peptone
Phenacetin
Phenazone
Phenolphthalein
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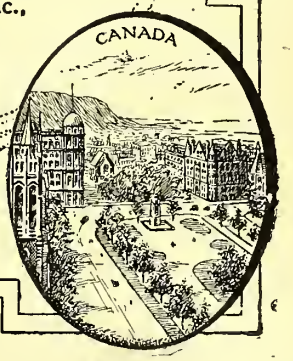
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The AutoStrop Safety Razor Company, Ltd.

"VALET" AUTOSTROP RETAIL PRICES,

February 23rd, 1920.

"Valet" Set No. 1.	Black case, lined velvet and satin, silver-plated razor, 12 blades and strop	**25/-**
"Valet" Set No. 16.	The same contents in folding case of tan hide, specially suitable for travelling	**25/-**
"Valet" Set No. 50.	Nickel-plated case, lined velvet, silver-plated razor, 12 blades and strop	**27/6**
"Valet" Set No. 6.	Black Morocco-grain case, lined velvet and satin; silver-plated razor, 12 blades and strop, 2 silver-plated tubes containing shaving brush and soap	**40/-**
"Valet" Set No. 12.	Same as No. 6, but with pocket and mirror	**45/-**
"Valet" Set No. 8.	Same as No. 12, but in real pigskin	**52/6**

"7 o'clock" Retail Prices, *February 23rd, 1920.*

"7 o'clock" Set No. 20.	Black case, with strop in hinged partition, containing silver-plated razor and 6 blades	**12/6**
"7 o'clock" Set No. 22.	Brown leather-cloth folding case, containing silver-plated razor, 6 blades and flexible strop	**12/6**

Trade and Cash discounts on quantities as heretofore.

Maw's Page.

S·MAW·SON & SONS·LTD
7/12. ALDERSGATE ST. LONDON. E.C.1., ENGLAND.

NO. 437
28 : 2 : 20

I told you so.

I told you so—that's a hateful phrase to have inflicted upon you, isn't it? Yet how sorely one is tempted to use it at times. I hope I shall be forgiven for using it now—I trust you will lend a kindly ear to my plea of justification.

Readers of these notes will remember that some time recently I issued a warning against shaving brushes that hailed from the Orient.

Rumours had reached me of disease being spread by these wares and because the House of Maw had the interest of its customers at heart in this as in other matters I was called upon to bring this grave danger to your attention.

Now from the "Daily Mail" of February 11th I cull this paragraph :—

Shaving Brush Danger.
Japanese Imports Prohibited.

An order has been made under the Anthrax Prevention Act prohibiting the importation of shaving brushes made in Japan.

Recently Japanese shaving brushes imported into Britain were found to contain Anthrax germs. In one case 8 out of 11 brushes were infected. A search was instituted by the Ministry of Health and some of the brushes traced.

The activity of the Ministry of Health in this matter is very laudable ; but I do not think it goes far enough. If shaving brushes are infected in this manner what reason is there to suppose that other articles are immune ?

I certainly think that the most stringent measures should be taken to prevent the importation of disease-bearing manufactures.

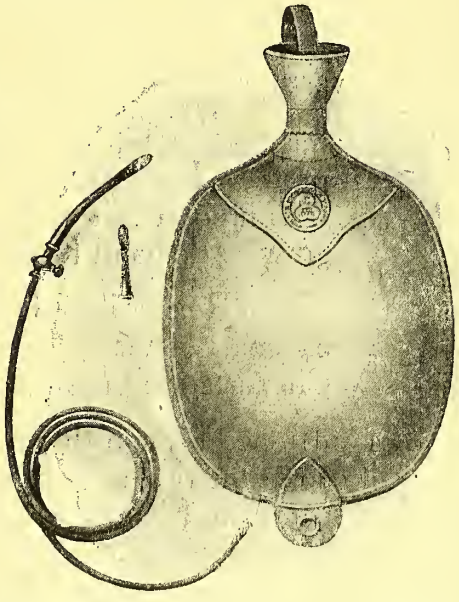
Meanwhile the pharmacist whose first consideration is the public health should obtain his wares from an English manufacturer of repute.

I make no apology for suggesting that you will be best pleased with what you obtain from The House of Maw..

Discus

DOUCHE or HOT WATER BOTTLE

ENTIRELY BRITISH MADE.



THE popular pattern illustrated here needs no wordy introduction because of its well-known merits and advantages. An exceptionally strong and well-manufactured Bottle with metal connection.

It is made of the finest mineralised rubber containing all the natural life and resiliency of ***pure rubber.*** There are no sand holes, blisters, or tiny pores in this All-British Production.

Fitted with six feet of best quality red india-rubber tubing, vulcanite Stopcock, Rectal and Vaginal Pipes. In two sizes.

PRICES :

3 PINT ... **9/6** EACH
6 „ ... **11/9** „

Each in Plain Card Box.

MAW QUALITY and entirely BRITISH MADE.

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Maw's—"The House of the Moment."

THE Rexall TRADE MARK IDEA

THE EXCLUSIVE AGENCY plan for a wide range of products originated with Rexall. The policy permits only one Rexall Chemist in each locality, and in that district he alone supplies all Rexall merchandise.

The Rexall Chemist controls a distinct line of high quality products bearing the Rexall Trade Marks. He is protected against unjust costs and unfair price cutting. He is assured a fair profit and his profits multiply with the ever growing demand for Rexall products.

Rexall introduced into the Apothecaries Craft a new element of progress, new ideas, and a new vision. Rexall Chemists are pioneers in modern drug trade merchandising.

Through the medium of their Rexall Clubs they have constituted themselves a vast fraternity, 8,000 strong; they meet in friendship and discuss their problems openly and fearlessly: for **Rexall early foresaw the folly of trying to unite trade competitors.**

If you are interested in this world-famous Chemists' Co-operative Enterprise, and there is not a Rexall Pharmacy in your vicinity, write for particulars. Rexall is the best weapon with which to fight the Chain store Chemists and Department Stores.

UNITED DRUG COMPANY

114 OLD HALL STREET, LIVERPOOL.

INCREASED PROFIT ON NEW PRICE

3/6

INSTEAD OF

2/9

AS from March 1st, 1920, the New Retail Price of 3/6, instead of the old Pre-war Price of 2/9, will come into operation

ALL BRITISH-OWNED — ALL BRITISH-MADE

Kutnow's Powder

"DEER LEAP" REG.D TRADE MARK

AT ALL CHEMISTS — IN 3/6 BOTTLES: FACE VALUE

THE New Retail Price will mean increased Profit for the Chemist, A CLEAR PROFIT of 20% will be obtainable on the smallest quantities.

A FURTHER 5% PROFIT

may be obtained by ordering a 6-dozen Parcel from any of the Wholesale Houses.

NEW PRICE LABELS

For any old-price stock on hand, sent post-free on request direct to

S. KUTNOW & CO., LD.

41 Farringdon Road, London, E.C. 1,

Who tender hearty thanks to all Chemists for past and future co-operation.

"The World is Mine Oyster."



The Pharmaceutical Society's Diploma is a nice piece of engraving but earning it does not put the World in your debt.

The public doesn't owe you a living just because "you've qualified."

Having proved your *professional* competence, you get a licence to practise—nothing more.

You may "keep open shop" . . . . . you know the rest. In opening that shop you open your oyster. You may find therein only a little rather thin nutriment, or a "pearl of great price"—which of these you will find depends on yourself !

The real effort comes in proving your *commercial* competence.

To discover the resources of the Ucal organisation and to have the advantage of these right from the start is the finest piece of "luck" that can possibly happen to the young Pharmacist.

Ucal

The Sign of Reliability

UCAL, Cheltenham.

AYRTON'S WEEKLY PAGE 15

Still in demand!



Cinnamon Influenza Tablets
Containing Menthol, Formalin, Acid Benzoic, Acid Citric, Ol. Cinnam.

	25	50	100 tablets
Per dozen	4/3	7/-	12/-

Formalin and Mint Tablets

Per dozen	4/3	7/-	12/-

Cold Cure Tablets

	20	40 tablets
Per dozen	4/9	8/6

Easton Syrup Tablets

	25	50	100 tablets
½-dram ... per dozen,	5/9	9/6	16/3
1 ,, ... ,,	7/6	13/-	23/3

Hypophosphites Compound Syr.

½-dram ... per dozen,	5/9	9/6	16/3
1 ,, ... ,,	7/3	12/6	22/3

The above Tablets with the exception of Cold Cure, which are in decorated tins, are packed in screw-capped bottles.



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How is your stock of Blood Medicines?

The following are seasonable lines:—

Sulphur Tablets
Sugar base, Orange and Lime flavours

	Tins containing 24	56 tablets
Per lb. 2/6	3/3	5/6

Blood Tablets
Containing Hæmoglobin, Manganese, Cascara and Iron
In slide boxes containing 25 tablets

Per dozen	4/6

SHOWCARDS FREE

AYRTON, SAUNDERS & CO. LTD.
Wholesale Druggists
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Two Lines which you, Mr. Che

They always mean a pleased and satisfied C



ALKIA SALTRATES.

A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Protected on P.A.T.A. at the full face value of 2/9 a large bottle.

A FEW OF

OF ALKIA SALTRATES

who have written us praising



Mr. A. F. BETTINSON,
Founder and Manager National Sporting Club.



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The Famous Boxer.



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World's Champion Sprinter, Record Holder for 75, 100, and 125 yards.



FURTHER ENDORSEMENT

Numerous other celebrities have written us of the benefits derived from our Compounds. The following are a few names selected at random from those and published here by special permission:

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Mr. Horatio Bottomley, Mr. Harry Pilcer, etc., etc.

Not designed as the cheapest preparation of

YOU CAN STOCK THESE GOODS ON *GUARANTEED SALE* TERMS.

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted.

Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present extensive advertising campaign.

Recommend with Full Confidence

they do exactly what our advertisements say.

MINENT USERS
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in the highest possible terms.



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American Heavy-weight Champion.



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Amateur and Professional World's Record Holder for Long-distance Walking.



W. J. BAILEY,
Champion Cyclist.

ands of commendatory letters on file, open to examination by anyone.

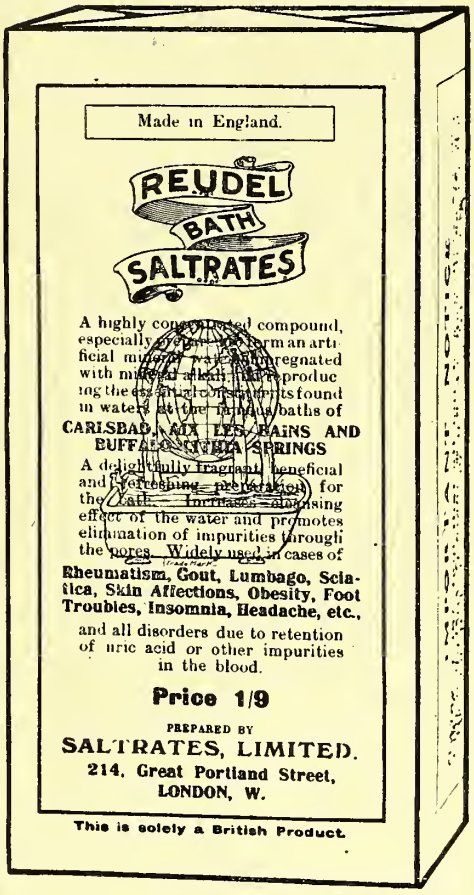
medical profession, trained nurses, prominent business men, actresses, men well known in the Army, Navy, sporting world are amongst thousands of the correspondents who have written ltrates in the highest possible terms after having experienced ative effects. The ethics of the medical profession do not permit any physicians' names, but our files of other commendatory inspection by anyone at any time.

e best producible, regardless of cost.

E CAN GUARANTEE IMMEATE DELIVERY OF ALL ORDERS.

are fortunate in being able to announce that ght shown in the laying in of very heavy stocks pplies in anticipation of the shortage which vards developed, *still enables us to guarantee nd prompt delivery of orders for any quantities.* efore, in spite of the present raw material difficulnd specially high drug costs, we are as yet making vances in our prices, which remain on a pre-war

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The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes.

Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised.

Protected on P.A.T.A. at the full face values of **1/9** *and* **2/9.**

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Shows you 50% Profit on Sale.

Our Advertising is attracting New Customers Every Week.

ARE YOU SHARING IN THE PROFITS?

MADE UP IN TWO SIZES:

4 oz. - per doz. **7/6** min. retail **1/3**

8 oz. - „ „ **12/-** „ „ **2/-**

Attractive Showcard Supplied Gratis

From all Wholesalers, or direct from Manufacturers.

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57 POLAND STREET, LONDON, W.1.

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You can always sell

THE EMPIRE COLD CREAM

(WHITE ROSE PERFUMED)

With satisfaction to yourself and customers.

It is absolutely dependable, and is distinguished by its smooth and white appearance, bland and emollient properties, and dainty odour.

In Opal Pots, Aluminium Capped.

E 586 **7/6** per dozen ... Retail **1/-**
E 587 **9/6** „ ... „ **1/6**

In Tubes, each one in Carton.

E 588 **5/-** per dozen ... Retail **8½d.**
E 589 **7/-** „ ... „ **1/-**

Gross orders of one line 13 dozen to the gross.



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SYNTHETIC OTTOS

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TRUE SYNTHETIC PRODUCTS

THESE Ottos are intensely strong and quite different from Concentrated Perfumes, generally made to a uniform concentration of, say 40 times.

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CARNATION. Intensely fragrant, exactly resembles the flower ... 10/- oz.

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ROSE WHITE. ... ... 18/- oz.

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VIOLET DE PARME. A variation of the preceding Otto ... ... 15/- oz.

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Oriental Synthetic Otto

"ZINYL" BRAND.

This beautiful product has a most powerful heavy odour absolutely reminiscent of the Far East, and is a pronounced success, being already supplied to various well-known houses.

17/6 oz.

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PENNYROYAL OIL

RUE OIL.

NEROLI (BIGARADE)

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PURE SPANISH ESSENTIAL OILS.

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Grams: "Lonabarc, Finsquare, London." Phone: London Wall 9020.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

'Phone! CITY 2468. Telegrams: "EGDARF, FEN, LONDON."

"LANZONE" BRAND LANOLIN B.P.

IMMEDIATE DELIVERY FROM STOCK.

THE PRODUCE BROKERS CO., Ltd.

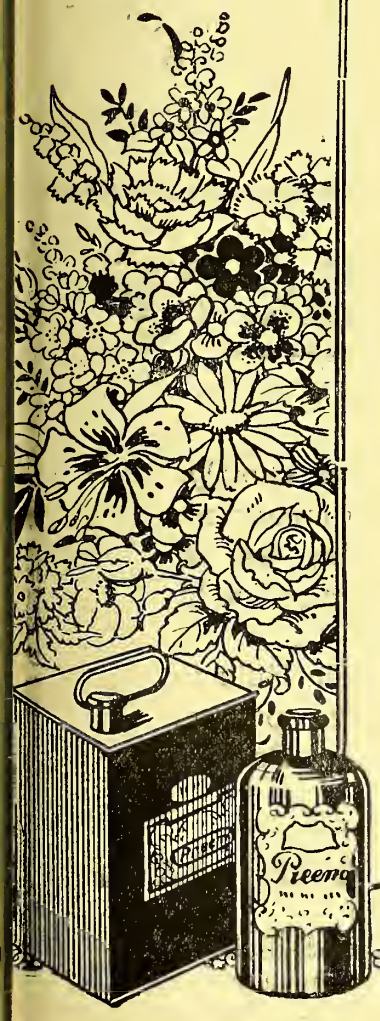
24-28 ST. MARY AXE, E.C.3.

Telephone: Avenue 3410 (9 Lines). Telegrams: "Syntax London."

"PREEMO"

Concentrated Essences, Floral Ottos & Compounds

For making all kinds of Toilet Preparations.



THIS is a good time to start making your own Toilet Preparations, as the demand for these is always greater in the spring and summer than at any other period of the year. All you require are small supplies of the famous Preemo Concentrated Essences, Floral Ottos and Compounds, a few bottles and some labels, which are easily obtainable. With these necessary requisites the manufacture of Hair Washes, Tonics, etc., becomes perfectly simple, and if required we will gladly help you with useful recipes which you can easily follow.

Have you a good sale for loose perfumes? If so, why not make up and sell your own? It's so simple with the Preemo Ottos, and free recipes are supplied with trial orders.

Begin NOW, but before committing yourself to placing an order,

You can experiment at our expense.

We will send you samples of the Preemo Essences, etc., free of charge, and these will be sufficient to show how easy it is for you to become the manufacturer of all the Toilet Preparations you sell.

WRITE TO-DAY. WE GIVE PROMPT ATTENTION TO ALL BONA FIDE REQUESTS.

The PREEMO CONCENTRE and ESSENTIAL OIL CO.,

63 High Holborn, LONDON, W.C. 1.
Telephone: HOLBORN 3095.

32 Rue de Montenotte, PARIS.
Tel.: WAGRAM 27-35.

PARFUMERIE SHYB PACAUT et CIE

De Grand Luxe *PARIS.*

Registered Trade Mark

¶ The House of Pacaut et Cie of Paris beg to announce that their famous SHYB Products are now available for the English Market, and that their general representative for the U.K. (René Paindessous) is now carrying stocks of all their leading lines in London.

¶ The SHYB Parfumerie of Pacaut et Cie is a scientific production, distilled from the choicest blooms, and possessing the charm of bouquet and fragrance associated only with the most highly distilled scents.

¶ Please write for particulars and price list of the many varieties of perfumes. Exceptionally good trade terms. A large public demand is being created by press advertising.

¶ OTHER PACAUT PRODUCTS.—Pâte Dentifrice, Crême pour Visage, Poudre de Riz, Savon, Eau de Toilette, Lotion pour Cheveux.

WHOLESALE ONLY.

RENÉ PAINDESSOUS (General Representative for the U.K.)

PREMIER HOUSE, 150 Southampton Row, LONDON, W.C.1

TELEPHONE: MUSEUM 1178.

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities—Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. **Telegrams: "VANILLIN, CAMBER, LONDON."**

NEW AGENCY! CREME & POUDRE DE LUZY, PARIS

WELL WORTH INVESTIGATING

Powder to retail at 10d., 1/9 and 3/3. Cream to retail at 1/3, 3/6 and 3/9.



Made by an important Paris firm employing over 500 hands.

Best in every detail.

Splendidly presented.

To be advertised by Press and posters as illustrated.

Showing 50% profit on cost.

INQUIRIES INVITED.



W. H. CALNAN & Company, 30-32 LUDGATE HILL, LONDON, E.C. 4

NEW CROP 1919-1920



PURE ESSENTIAL OILS
TERPENELESS ESS. OILS
BERGAMOT
SWEET ORANGE,
BITTER ORANGE,
LEMON, MANDARIN,

NEROLI "D'ITALIA"

The Best on the Market.

EXPORTATION THROUGHOUT THE WORLD

Export Agent:
Giuseppe Macajone, MILAN
Via Canova 25 (Italy).

SALES
BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME BRICK

FOR LINEN CUPBOARD AND WARDROBE.
On the P.A.T.A.
Retail Price ***6d.***

Of the Makers:
WILLIS, LOW & DRUIFF, LTD.,
6 Mortimer St., London, W.
AND ALL WHOLESALERS.



Mr. Fred BARNES, writing from the London Palladium, says:—"Cinema Soap is without question the best and most delightful soap for the skin I have ever used, whilst Cinema Dentifrice is a wonderful preparation. For a long time I have been trying to discover a dentifrice which actually does whiten the teeth without injury. Hundreds of preparations claim to do this, but all they really do is to polish up the surface. I have used Cinema Dentifrice with splendid results. Not only does it make the teeth snowy white, but it has, I find, a tonic effect on the throat, a fact very important to all artistes. I think it is a wonderful preparation, and gladly recommend it to my brother and sister artistes.—Faithfully yours, FRED BARNES."

Miss VIOLET VANBRUGH and hundreds of other well-known stars use and recommend these super-toilet specialities. They are the latest and best in the world.

London's Famous Stars

Use and Recommend Fragrant

CINEMA SOAP

The Cream Soap "Exquisite"

WILL MAKE YOUR FACE A PICTURE

Trade Mark Copyright at home and abroad

Our Special Offer

Cinema Soap is wrapped and packed three tablets in a box which retails at 2/6, single tablets sell at 10½d. each. Our price is 22/6 per dozen boxes. Every Chemist sending for one dozen boxes *within 14 days* will receive

Three dozen Cinema Crushed Rose Face Powder Free, together with sale cards, cinema photos, and advertising matter; also we will send, by special arrangement with the Amalgamated Press, Ltd., 500 copies of "The Picture Show" free of charge. Just figure this value out and send without delay. Cross cheques and P.O.s.

THE CINEMA SOAP COMPANY, Ltd.,
(Dept. 22) 22 Finsbury Park Rd., London, N.4.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

THE SUPER PASTE

"ENOLIN" IS ALSO SUPPLIED IN POWDER FORM, 6d. and 1s. TINS.

SOLE MANUFACTURERS & PROPRIETORS:
A. & E. CARRERAS, *Perfumers,*
207 King St., Hammersmith, London, W.6.

Selling Agents for Provinces, Ireland and Export:
MESSRS. PATTINSON & MACKIE, LTD.
Albion House, 59 New Oxford Street, London, W.C.1.

EDWARDS' HARLENE
TOILET SPECIALITIES.
THE WORLD'S BEST.

HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS?



"HARLENE" FOR THE HAIR
"UZON" BRILLIANTINE
"CREMEX" SHAMPOO POWDERS
"ASTOL" FOR GREY HAIR
"ASTINE" VANISHING CREAM
"ASTINE" TOOTH CREAM
"ASTINE" SHAVING STICK
"ASTINE" NAIL CREAM

NO CHEMIST OR STORE CAN AFFORD TO BE WITHOUT THIS UNIQUE LINE OF TOILET PREPARATIONS

It is most desirable in your own interest to carry a good stock of these preparations, as owing to the enormous demand created by a world-wide advertising campaign the number of customers is daily increasing. Do not put yourself in the unenviable position of turning money away. Thousands of sample packets are dispatched to the general public daily, comprising :—

1. A Trial Bottle of "Harlene."
2. A "Cremex" Shampoo Powder.
3. A Trial Bottle of "Uzon" Brilliantine.
4. Book of Instructions
5. A Trial Bottle of "Astol."
6. A Sample of "Astine" Vanishing Cream.

FOLLOW THE TIDE OF SUCCESS.
Watch the Great Free Gift Advertising Campaign that brings the Customers to YOUR shop.

For Particulars, Terms, etc., write to

EDWARDS' HARLENE, LTD.,
20, 22, 24 & 26 LAMB'S CONDUIT ST., LONDON, W.C.1.

THREE GOOD SELLERS THAT PAY WELL

FROZOCLONE

(The original solid Eau de Cologne).

(Regd.)



THE WORLD'S GREAT PERFUME AND REFRESHER IN SOLID FORM

Retails (P.A.T.A.) Minimum - **3/-** giving at least **10d.** Profit on each sale.

26/- - - per doz.

FROZOCLONE is a convenient form of the finest Eau de Cologne, refreshing when rubbed on the forehead, equally pleasant as a smelling bottle, invaluable in a heated atmosphere and when motoring.

CARNATE (Regd).

A NAIL POLISH PASTE with new and distinctive features. Antiseptic—Softens the cuticle—Brilliant and lasting polish.

Retails (P.A.T.A.) minimum **1/6**; **12/-** per doz.

ANALAX

(Reg. Pat. No. 310716).



The Ideal Fruity Laxative in Pastille Form.
DELICIOUS. RELIABLE. EFFECTIVE.

Retail (P.A.T.A.) Minimum **2/3** **21/-** per doz., stamped.

R. DEMUTH'S LABORATORIES, 68 Salusbury Road and Montrose Avenue, LONDON, N.W. 6

Telegraphic Address: "Boulbene London." Telephone: 525 Willesden.

THE

British Glass Blowers

LIMITED

Birnam Works, Birnam Road, Tollington Park, LONDON, N. 4.

Telephone No.: Hornsey 2217.
Telegrams: "Britglablo, Finspark, London."

HAND-MADE, FURNACE AND GAS BLOWN

CHEMICAL AND SCIENTIFIC GLASS WARE

Of every description made by Highest-class British Labour.

Inquiries and Orders promptly executed.

"SOFTO" Tablets

for Chapped Hands and Tender Feet.



The Line that SELLS!

Retail Price - 2d.

Wholesale 12/- per gross.

SOFTO MANUFACTURING CO.
33 Edgware Road, London, W. 2.

BE SURE AND ADD

La-Rola

Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

supplied as usual,

All these articles are protected at Face Value. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

OVER 100% PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.1.

A strong counter line

Women are usually your best customers and make the most of the purchases. It is always profitable, therefore, to suit their requirements.
At the moment Women are taking greater care of their personal appearance, and more particularly to the care of their hair, than ever before in history.
If you stock Camilatone specialities you will develop a big Counter trade with the ladies, for it will restore dark or dull hair to its original beauty and glossiness, in fact we can say without exaggeration that it will give to women's hair all the glorious tints of youth.
Write to-day for a copy of the booklet "Hair Beauty Hints," which will be sent post free with full particulars and Trade Terms for our specialities, including Camilatone Tonic Shampoos.

CAMILATONE

Puts Sunshine in the Hair

IT IS SIMPLE TO SELL, SHOWS A GOOD MARGIN OF PROFIT. WE ASSIST YOU IN DEVELOPING THE BUSINESS, AND HELP YOU WITH OUR VIGOROUS ADVERTISING.

CAMOMILE TONIC CO.
Dept. C, 16 Lichfield Road, N.W. 2.

SOLID BRILLIANTINE



No. 3394.
In Green Enamelled Oval Tin Boxes. Assorted Odours.
7/6 doz.



No. 3171.
In Green Enamelled Square Tin Boxes. Assorted Odours.
5/6 doz.

Customer's name free on 3 dozen of a kind.

Subject to Usual Terms.

Manufactured by
WILLIAM TOOGOOD, LTD.
77 Southwark Street,
LONDON, S.E. 1.



WAVCURL

THIS article has now been sufficiently long before the public to enable them to sample its merits. This the public have done on a large scale, and many delighted users have come again and again to the retailers they buy from for further supplies. The demand has been extraordinary. At first the proprietors tried to cope with it per post, but they soon saw that this was too cumbersome and tedious a method, and they are now gladly availing themselves of the services of the trade. Wavcurl is a first-class seller and a first-class payer, too. The profits are all they should be on a toilet line, as any reader can see for himself in the P.A.T.A. Protected List. Forty per cent (40%) should surely awaken your interest, especially in a line that sells at sight. All classes of ladies, from the titled dame to the busy factory worker, are using it as their readiest means of keeping themselves attractive, notwithstanding the great demand there is just now upon their time. To the user it is a great time-saver; to the seller, a great money-maker. We invite your application for Showcards and Dummies for window-dressing. A Wavcurl window-show in an industrial or factory area will simply make the shillings shower into your till. Address post card to

THE WAVCURL CO.,

FULWOOD HOUSE, HIGH HOLBORN, W.C.1.

	Per doz.
1/6 Wavcurl (in packets) ...	9/-
2/9 Wavcurl (in bottles) ...	21/-
1/6 Complexion Cream ...	10/-
2d. Shampoo Powder ...	15/- gross.
1/6 Duvetine (Superfluous Hair Remover) ...	9/-
1/6 Wavcurl Hair Tonic (9 in Powdered Form)	9/-
1/6 Eyelashine	9/-
Showcards for Window Dummies for Show	no charge

Agents: PARIS.—A. W. Scott, 38 Rue du Mont Thabor. CANADA.—W. W. Barry, 1 Port Street, Montreal.

IMPORTANT.

WILL Retail Chemists kindly note that ORISAL MOUTH WASH for PYORRHŒA is now prepared only in a highly concentrated form at **4/9** per bottle retail, the contents being four times the strength of those hitherto retailed at **2/9**.

WHOLESALE PRICES.

Mouth Wash (including Govt. duty, 12/-) **48**/- per doz.; Retail **4/9** per bot.

Dental Paste (including Govt. duty, 6/-) **23**/- per doz.; Retail **2/3** per tube.

Obtainable from the principal wholesale houses, or direct from

ORISAL LTD.

77 GEORGE STREET, PORTMAN SQ., W. 1.

D.D.D. Prescription

FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

	per doz.
D.D.D. Prescription 2/9 bottle, M.R.P. Face Value, @	25/6
,, ,, 5/- ,, ,, ,, ,,	47/-

In two strengths—Ordinary and Strong.

	per doz.
D.D.D. Soap ... ... 1/- tab. M.R.P. Face Value, @	8/3
,, Shaving Soap ... 1/6 stick ,, ,, ,,	13/6
,, Vanishing Cream 2/6 jar ,, ,, ,,	22/6
,, Shampoo Powders 2/6 box ,, ,, ,,	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.

3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C.4

Sale reserved exclusively to Chemists.



"DUCHESS" REGD.
TOILET SOAP

5D. TABLETS.

Price Protected.
No cutting.

Send for Price List to
"ERASMIC," PERFUMERS, WARRINGTON.

A. GIDLOW & CO.
(ESTABLISHED 1896.)
BROOM LANE, LEVENSHULME,
MANCHESTER.

MANUFACTURERS OF

SHAVING CREAMS

Packed in 1 lb., 2 lb., 7 lb.
Boxes and 56 lb. Cases.
Also Packed in Collapsible Tubes.

Proprietors and Manufacturers of

RENARD'S POMADE HONGROISE.

Samples and Prices on application.
Wholesale only.

STAND No. N 31
(British Industries Fair)
WHOLESALE HOUSES ONLY SUPPLIED

SEE OUR EXHIBIT
of LONDON - MADE
NON-INFLAMMABLE
DRESSING COMBS
MANICURE SETS
BRUSH BACKS
Hair Novelties, Etc.

MYERS, LUMOS & CO.
MANUFACTURERS.

Factories: ISLINGTON and FINSBURY PARK
Sales Offices: 35/36 Aldermanbury, LONDON, E.C. 2

Phone. 3526 City (3 lines).



The Biggest Profit on advertised Vanishing Cream yet offered to Chemists.

Unique BONUS OFFER for

SNOWLEEN



The Face Cream with the largest output.

Snowleen Day Cream. Snowleen Night Cream. Snowleen Flesh-Tinted

BONUS OFFER No. 16.	BONUS OFFER No. 17.
1 gross Snowleen 1/- @ 92/-....£4 12 0	½ gross Snowleen 1/- @ 92/-....£2 6 0
1 doz. Snowleen 1/- 2 doz. Snowleen Shampoo 3d. } FREE	½ doz. Snowleen 1/- ½ doz. Snowleen Shampoo 3d. } FREE
Produces £8 2 0, or **82%** Profit.	Produces £3 19 6, or **80%** Profit.

Write for samples

WHITE BAND MFG. CO., Limited,

CROYDON, SURREY.

IT PAYS TO PUSH

THE LARGEST SALE OF ANY TOILET SOAP IN THE WORLD.



"ITS QUALITY MAKES IT A LUXURY SOAP." "ITS MODERATE PRICE AN ECONOMY."

REVISED PRICE LIST

SPRING ADVERTISING CAMPAIGN.—*February*, 1920.

	Cost per doz.	Retail Price
1. Palmolive Soap	6/-	9d.
2. Palmolive Lavender Bath ... (White Floating Soap)	4/4	6½d.
3. Palmolive Lavender Bath ... (White Floating Soap)	2/-	3d.
4. Palmolive Cold Cream (Jars) Same as original Palmolive Cream.	20/-	2/6
5. Palmolive ,, ,, (Tubes)	10/-	1/3
6. Palmolive Vanishing Cream (Jars)	20/-	2/6
7. Palmolive Vanishing Cream (Tubes)	10/-	1/3
8. Palmolive Shaving Stick ...	16/-	2/-
9. Palmolive Shaving Cream ...	16/-	2/-
10. Palmolive Shampoo	24/-	3/-
11. Palmolive Talcum Powder ... (White and Rose)	14/-	1/9

	Cost per doz.	Retail Price
12. Palmole Face Powder (White, Rose and Brunette) Our Brunette Powder is similar tint to Rachel.	Not yet on sale.	
13. Palmolive Face Powder ... (White, Rose and Brunette) Our Brunett Powder is similar tint to Rachel.	20/-	2/6
14. Cleopatra Divine Face Powder ... ... (White, Rose and Brunette) Our Brunette Powder is similar tint to Rachel.	Not yet on sale.	
15. Palmolive Rouge (Vanity Box with Mirror) ... ... (Light and Dark Brunette)	16/-	2/-
16. Palmolive Compact Combination (Face Powder, Rouge, Two Mirrors)	Not yet on sale.	
17. Palmolive Lip Rouge... ...	12/-	1/6
18. Palmolive Toilet Water	Not yet on sale.	

On the P.A.T.A. List. Showing 33⅓% Profit.

Palmolive Cream Tubes No. 5; Vanishing Cream Tubes No. 7; Shaving Cream Tubes No. 9; are packed 1 doz. in smart carton, printed three colours, and serves for display. Remember 75% of goods are sold through the eye.

SPECIAL TERMS.

5% allowed on 5 gross Palmolive Soap, 72/- per gross, and on 4 gross Lavender Bath Soap, 52/- per gross. Carriage paid on one gross and upwards.

Write for Showcards, Price Lists and Display Matter.

THE PALMOLIVE COMPANY,

17/14 GREAT SUTTON STREET, GOSWELL ROAD, LONDON, E.C.1.

WORKS: TORONTO, CANADA.

TOILET GOODS

PACKED IN

COLLAPSIBLE TUBES.

White "X" Series.

	4 × ¾	4 × 1
Toilet Lanoline ...	4/3	6/9
Antiseptic Honey Jelly	4/3	6/9
Milk of Cucumber ...	4/3	6/9
Oatmeal Cream ...	4/3	6/9
Witch Hazel Cream ...	4/3	6/9
Best Cold Cream ...	5/6	7/9

TOOTH PASTES

(White "X")

Cherry, Areca Nut, White Rose, Carbolic, Formalin and Mint, Thymol, etc. — 4/3 — 6/9

If each in a carton, 6/- per gross extra.

SPECIAL LINE

SPLENDID SELLER.

Antiseptic Tooth Paste 5/3 dozen (White "X") each in carton.

Pomade Hongroise, 4×¾ 4/3 doz.

Special Quotations for Quantities.

"X Series" TIN BOXES

In Variety. *Inquiries Esteemed.*

THE

Chemists' Manufacturing Co., Ltd.

WITH WHICH IS INCORPORATED

SHIRLEY BROS.

Whitecross Works,

123/125 Newington Causeway - - S.E.1.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY - For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads.	36/-	4/-
BARSYDE - - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive perspiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:
ALL WHOLESALERS and DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA:
LENNON & CO., Ltd. (Cape Town)
SIVE BROS. & KARNOVSKY Ltd. (Johannesburg)

INDIA:
KEMP & CO., Ltd. (Bombay).
R. MACLURE (Madras).
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS. (Calcutta).
JAMNADAS BROS. (Bombay).

NEW ZEALAND:
SHARLAND & CO., Ltd. (Auckland & Wellington).

SOUTH AMERICA:
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

There are many cheaper Creams than Tokalon —but your Customers don't want them. There may be better Creams than Tokalon —but just try to find them!

CRÈME TOKALON



PRICES 1/3 & 2/-

With the help of our advertising, you, Mr. Chemist, have to sell Tokalon cream and powder to your customer the first time, but from then onward they sell themselves. After once testing these remarkable products the customer will not feel satisfied with any others.

Why it is that Elsie Janis finds Crème Tokalon so different from all others.

Crème Tokalon imparts marvellous beauty to the complexion because it contains buttermilk and other skin-preserving and nourishing ingredients found in no other Cream.

COMPLEXION PERFECTION is merely a matter of using CRÈME TOKALON (Pronounced Toke-a-lon)

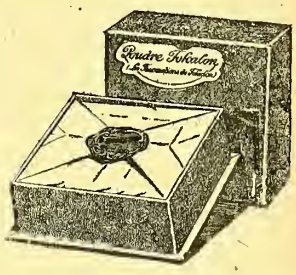


What Elsie Janis says about CRÈME TOKALON & POUDRE TOKALON.

"Carefully choose a good cream and a good powder, both made by a responsible manufacturer. Try them carefully, noting the exact effects. If satisfactory adopt them for regular use and never touch any others. I even advise going so far as to have cream and powder analysed by an expert chemist. This will be somewhat costly at first, but it may save you money in the end. It may even save your complexion. The cream must not only be absolutely pure, but it should be non-greasy. The powder should be of extreme fineness. I personally use Crème Tokalon and Poudre Tokalon. No one could ever persuade me to use any others."

Elsie Janis

POUDRE TOKALON



PRICES 1/9 & 2/11.
In compressed form (Comprimes) 1/3 each.

Our goods, bought on best terms, Show you 57% PROFIT on your Outlay.

Show-Cards sent free on request.

Carriage Paid on all Orders for 3 doz. or over.

Why it is that Elsie Janis finds Poudre Tokalon so different from all others.

The extreme fineness of Poudre Tokalon, as mentioned by Elsie Janis in her letter, is produced by the "air-floating" process which we use exclusively in manufacturing the powder.

YOU SHOULD ALWAYS KEEP THESE TWO QUICK-SELLING LINES IN STOCK.

TOKALON LIMITED, 212-214, Great Portland Street, London, W.

Violiv

Making Money work hard on "Season" goods

By TREBOR.

As a business man—I am always looking for the "good things."
Now, although a Season Seller is in this category—I am not at all satisfied until I am assured it is a "repeater."
After all—business is not a thing of "the immediate." It is of the future, if it is to be successful. And—the repeater is the line for my money, because the turnover is quicker. With goodwill accruing, as a consequence of stocking the good "goods," I am increasing my business all round, and solving in a sound business way the question of ever-increasing on-cost.



Here is a line as a case in point. The "Cream" Season is on the horizon. VIOLIV CREAM is a ready "repeater"—because it is the RIGHT thing.
It sells at sight—customers are thoroughly pleased with it, and ***come back*** for other lines as well. My outlay on VIOLIV therefore influences other goods—so it is really worth much more than the generous **74 %** it carries. And—I am preparing now for that season. Are YOU?
Check off this simple sum—it shows how Violiv Cream will "turn" over your money handsomely.

1 gross @ 144/- ...	£7	4	0
Cash discount 2½ %	0	3	7
	£7	0	5

Realises:

1 gross plus Free Bonus 1½ doz. = 162 Pots @ 1/6 each retail	£12	3	0
Profit on outlay 74 %	£5	2	7

VIOLIV MFG. CO.
26 Haymarket Terrace, Edinburgh.
Selling Agents for England & Ireland, Pattinson & Mackie, Ltd., Albion House, 59 New Oxford St., London, W.C. 1.
V16 NorAd

50% PROFIT
(ON COST)
ON
"Warnol"
HAIR TONIC & DAILY DRESSING

The CHEMIST who stocks "WARNOL" is employing a Silent Salesman who puts money into his cash till without demanding any salary in return.

WHY?

QUALITY and ADVERTISING bring repeat orders. "WARNOL" is well advertised, and the superior quality of this delightful hair and scalp dressing enables it to sell itself.

Retail Prices, 2/9, 5/-, 7/6

Of all Wholesalers or direct from—
WARNER OLIVER, Ltd., 4 Holles St., W.1
Telephone: Mayfair 4296.

GET YOUR SHARE OF THIS BUSINESS

YOU know the steady all-the-year-round demand created by Snowfire Tablet, and will therefore appreciate that Snowfire Powders will bring you even bigger profits. The higher price of Snowfire Powders gives a larger turnover and consequently a bigger profit on every sale.

Snowfire
POWDERS
THE SURE CURE FOR CHILBLAINS

are extensively advertised in the popular press and they stand up squarely to our claims. Hence the demand and consequent profit to you.

Write for Price List.

F. W. HAMPSHIRE & CO., LD.
Riverside Works, Derby.



Keep Well Stocked

—your window display and our advertising will move the goods.

After all—the main thing in YOUR business is to keep stock on the move.

The oftener you turn over your stock in any one year *the greater your profit.*

Icilma will do its share for you—*if you keep well stocked.* Your window show and our continuous advertising sells the goods. And a window-show parcel (or as we term it, a display parcel) carries generous profits. *Details sent on request.*

All orders executed promptly and despatched as far as possible the same day as received. We have, however, no control over the transport, and delays do occur—hence do the wise thing.

Icilma

Toilet Preparations

Stock our goods and share our success.

Pre-War Quality Guaranteed.

International Icilma Trading Company, Ltd., 37, 39, 41, 43, King's Rd., St. Pancras, N.W.1.

T.26. 28.2.20.

105% Profit

An appealing set of 1/- Toilet Articles. Quality and high-class get-up warrants entire satisfaction and repeat sales.

THE SERIES

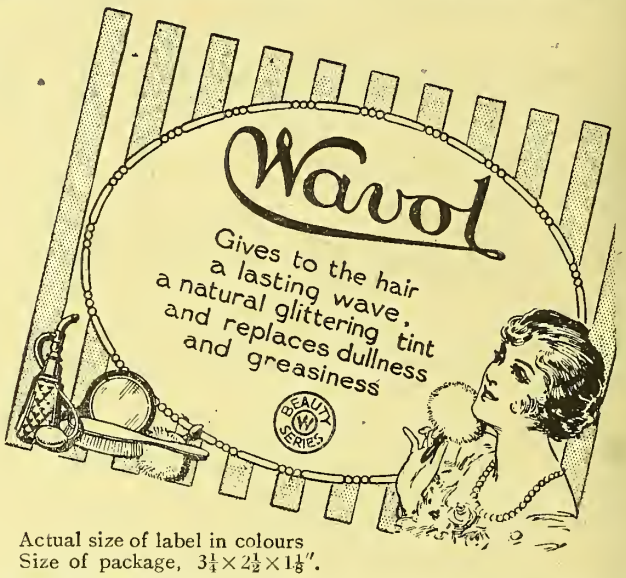
WAVOL—Produces wavy hair
DERMALIN — A complexion beautifier
EYE-BRIGHT—An eye-brightener and tonic
CILOCIN—An eyelash food
DE-ODOR—Perspiration deodorant
COLORET—A perfect complexion tint

Minimum Retail for each is 1/- Price 6/- doz., less 5% cash with order. Carriage Paid on 6 dozen upwards.

A Chemist 'phones: "Sold out; send another gross at once."

Orders executed in rotation.

SCOTT'S CHEMICAL CO.
47 Huddlestone Road, WILLESDEN, N.W. 2



Actual size of label in colours
Size of package, $3\frac{1}{4} \times 2\frac{1}{2} \times 1\frac{1}{8}$".

ODOR-O-NO

The Anti-Dress Shield Toilet Water.



Effectively corrects excessive perspiration.

Extensively advertised in American and English periodicals.

SHOWS GOOD PROFIT.

Distributing Agents:

The AMERICAN DRUG SUPPLY CO.
6 Northumberland Avenue,
LONDON, W.C. 2.

Balmoline

A Line Worth Handling

Balmoline No. 1.

Solidified cream put up in a new and handy form. A first-class product neatly and attractively packed, well advertised, and showing a living profit.

PRICE 10/- PER DOZ.

On a 6-dozen order a bonus of one dozen and free advertisement in your local paper.

Balmoline sells at 1/3

Carriage paid on all quantities. Plenty of high-class show matter supplied. Send for particulars of Balmoline at once, it is a sure repeater, sells itself, and brings a handsome profit.

Balmoline Manufacturing Co.
10 Railway Street, CHATHAM.

SAPON SOAPS SELL

Hundreds of Orders direct from the Public.

An Ornament to the Counter.



We want YOU to have this Business.

You should sell Sapon Skin Soaps :—

Because we, the makers, are entirely unconnected with any Combine.

Because Sapon Skin Soaps once used are always ordered. You will have a steady sale and the satisfaction of knowing that you are supplying the best. (Sapon Skin Soaps are recommended by many eminent Doctors.)

Because Sapon Skin Soaps yield a larger profit to you than any other make, while still being sold to the Public at a low price.

Write to-day for full particulars to

SAPON SOAPS,
LIMITED,
LONDON BRIDGE,
E.C. 4.

STRODONIA Vanishing Cream.

NOW SUPPLIED IN

ALUMINIUM SCREW-CAPPED JARS.

10½d. size—7/6 doz. 1/3 size—10/6 doz.

FROM LONDON WHOLESALERS.

Direct orders value **£5**, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; **£2/10/0** subject to ½-doz. 1/3 size Bonus for window display, net.; **£1/10/0** subject to ½-doz. 1/3 size Bonus for window display, net. Carriage paid on **£1/10 0** upwards.

STRODE COSH & PENFOLD, Broadmead, BRISTOL.

The Dye with a Reputation for reliability.

ROYAL COURT HAIR DYE

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. 8.

The Evan-Williams

Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogt Street, W.1.

ORIGINAL HENNA **SHAMPOO.**

SPONGE BAGS

IN CHECK, SUPER CHECK, OIL SILK, BATISTE, ALL RUBBER, Etc. *ALL SIZES.*

Also

DRESSING & RAKE COMBS

Inquiries invited.

WILLIAMSON BROS.,
54 LOWER THAMES STREET, E.C. 3
Phone: Avenue 5827.

Well Advertised. **Dainty.**

"OASIS" TOILET PREPARATIONS

are IRRESISTIBLE.

You have only to show them to sell them and reap the "OASIS" PROFIT.

If you do not already hold stocks, write at once for full particulars and prices to—

THE GENERAL CHEMICAL AND PHARMACEUTICAL CO., LTD.
57-59 CHURCH ROAD, WILLESDEN, N.W. 10.

Quick Selling. **Profitable.**

TRADE MARK

"VASELINE" PREPARATIONS AND RELIABILITY

"VASELINE" Petroleum Jelly when used in Ointments contains more of the desired elements necessary for a universal base than any other known substance. It has emollient, antiseptic, healing and protective qualities in itself, is not easily acted on by chemicals, and where properly protected from air and light, does not change. Also, when incorporated with other medicaments, they are not injured by the action of the base. These conditions have long been recognised by the leading Physicians, Surgeons and Pharmacists throughout the world. Animal and vegetable fats, on the other hand, are subject to change, forming various compounds which destroy the end for which they were intended.

"Vaseline" is the Registered Trade Mark of the

CHESEBROUGH MFG. CO. (Cons'd.)

42 Holborn Viaduct - LONDON, E.C.1

Complete Price List of all the "Vaseline" Preparations will be sent post free on application.

For LARGE BUYERS For SHIPPERS

Good Toilet Goods

SHAVING STICKS.
BRILLIANTINES,
DRY SHAMPOO (Liquid and Powder), BAY RUMS, TOILET PARAFFINS, LIME CREAMS, POMADE HONGROISE, TOOTH POWDERS, DENTAL CREAMS, VANISHING CREAMS, SHAMPOO POWDERS, and all TOILET GOODS.

SAMPLES AVAILABLE

C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL

WHOLESALE AND EXPORT ONLY SUPPLIED.

PUFFS. COMBS. PUFF-BOXES.

Caustic Pencils. Capping Skins.
Best French Cutlery. Turnery Articles.
All Manicure Requisites.

THEO. VAN DER HEYDEN

118-122 Holborn, E.C.1
and 17 Rue de la Grange-Bateliere Paris.

PHONE: HOLBORN 1873.

TOILET PREPARATIONS

that will increase your business—your profits and your reputation.

The get-up, the quality, and the prices are all such as appeal to the up-to-date Pharmacist.

A complete range of the best selling lines—uniformly labelled—enabling an attractive and extensive window display to be made with only a few of each preparation. Your name and address on the labels free of charge.

A postcard will bring a sample of any one of the undermentioned articles, a complete set of labels, price list and our special offer of a handwritten showcard.

Brilliantines (clear or with spirit). Bay Rum. Toilet Paraffin. Bay Rum and Cantharides. Violet Oil. Hair Cream. Dry Shampoo (liquid). Cold Cream. Hair Tonic. Skin Cream. Shampoo Powders (Wet, Dry and Henna). Solidified Brilliantine. Lime Cream.

RAYMET & CO., LTD. 507-509 HARROW ROAD, LONDON, W. 10.

B 2

A. BOURJOIS & Cie., Ltd.

66 CARTER LANE - LONDON, E.C. 4.

Please note that from this date the prices of

Poudre de Riz de Java (Bourjois)

are as under :

1/6 size. No. 45		1/2 size. No. 495	
1 doz. -	13/- per doz.	1 doz. -	10/- per doz.
6 „ -	12/9 „	6 „ -	9/9 „
12 „ -	12/6 „	12 „ -	9/6 „

The P.A.T.A. prices for Java Powder have been increased to 1/2 and 1/6 per box. *February 14th, 1920.*

MOUSLEY'S "BEAVERPUF"

Patent Nos. 4931 and 4932.

The Ladies' Natty Friend.

B. quality Brown Fur, 3/11 each, Retail.



G. quality Grey Fur, 4/6 each, Retail.

Additional Powder Bags, 6d. each, Retail.

Revolution in Powder Puff Manufacture.
Thousands already sold.
Now stocked by leading Wholesale Houses.
Usual Trade Discounts.

Patentee and Sole Manufacturer:

F. A. MOUSLEY,
Priest Bridge, Mortlake, London, S.W.14.



KOLENE

FOR THE HAIR

is sold in all parts of the United Kingdom.

Sales run into millions annually.

Reduced.

1½d Boxes Kolene	12/-	gross
3d. „ „	24/-	„
1 oz. Pots „	48/-	„
2 „ „ „	72/-	„
3 „ „ „	69/-	„

These prices are strictly net.

KOLENE
has a rapidly increasing SALE.

Ask for one of our travellers to call, or order direct from
The KOLENE CO., 206 Stewart's Rd., London, S.W.

FOR SALE.

YOHIMBIN.

Write Box 198/21, office of this Paper.

ART OF DISPENSING. (9th Ed.) 8/-, by post 8/6.
VETERINARY COUNTER PRACTICE. 6/-, by post 6/6.
CHEMIST'S DICTIONARY OF MEDICAL TERMS. 3/6, by post 3/10

THE CHEMIST AND DRUGGIST, 42 CANNON ST., E.C. 4.

MENNEN

THE MENNEN reputation has been built up on products of proved quality and purity. To-day their popularity is world-wide.

MENNEN TOILET POWDER

with the original borated formula was for many years known chiefly as a baby powder. But as mothers and nurses came to realise how wonderfully it cooled and soothed baby's tender skin they soon learned to look upon Mennen Toilet Powder as a requisite to an adult toilet as well.

Mennen Toilet Powder imparts a delightful fragrance and velvety smoothness to the skin. Its extreme smoothness is the result of applying the special Mennen process to only the finest talc. It is borated to just the proper degree. The finished product is impalpably fine, pure and of unvarying quality.

For every member of the family—Mennen is always in demand.

MENNEN VIOLET TALCUM. Delicately scented with violet.

MENNEN TOILET POWDER. For nursery and general toilet use.

MENNEN FLESH TINT TALCUM. Flesh coloured and delightfully perfumed with rose.

TRADE PRICE, ***10/9*** *per doz. 3 doz. quantities, 2½% discount. 1 gross, 10% discount. P.A.T.A. PROTECTED PRICE,* ***1/3*** *per tin.*

MENNEN SHAVING CREAM

contains no caustic. Softens the beard without finger-rubbing and can be used with cold or hot water. In new large tubes hermetically sealed—keeps in perfect condition always.

TRADE PRICE, ***16/6*** *per doz. 3 doz. quantities, 2½% discount. 1 gross, 10% discount. P.A.T.A. PROTECTED PRICE,* ***1/9*** *per tube.*

MENNEN FOR MEN
A soothing and refreshing powder for men after the shave. It is a neutral colour and does not show white on the face. Prices as above.

MENNEN PRODUCTS NOW AVAILABLE FOR DELIVERY FROM STOCK. Carriage paid on quantities of 3 dozen in assortment. Quantities may be assorted not less than 1 dozen of any kind.

PRODUCTS OF THE MENNEN CO.
FASSETT & JOHNSON LTD.
86, CLERKENWELL ROAD, LONDON, E.C.1.

PAPIER POUDRÉ
AND "POPPŒA" PREPARATIONS.

TRADE MARK



"LEHCARESOR."

Papier Poudré

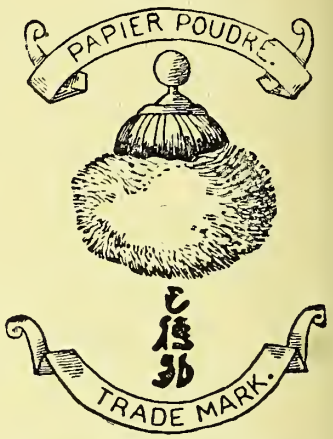
BRITISH MADE GOODS

Our Sunburn Tint
For Landworkers and Seaside Visitors.

Booklets - - - 8d. & 1/4
5/- & 10/- per doz. net.

Beware of Spurious Imitations.

REGISTERED



PAPIER POUDRÉ, LTD.
20 Baker St., Portman Sq., London, W. and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

NEW PAPIER POUDRÉ PRICES.

WHITE, ROSE, or RACHEL Tints, 4d., 6d., 8d., and 1/4 size Booklets, 2/8, 3/9, 5/-, and 10/- per dozen net respectively.

SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

REFILLS to MIRROR CASES in WHITE or RACHEL ... ... 2/8 per doz. net.
1/4 SHAVING PADS, FOR USE AFTER SHAVING (unscented, white only) 10/- „ „

THE ALL-BRITISH "POPPŒA" PREPARATIONS.

"Poppœa"

NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 1/- each. 8/- per doz. net.
IN MIRROR CASES, 1/4 each, 10 - per doz. net.
REFILLS, 6d. each, at 3/9 per doz. net.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2/6 & 3/6 each; 9/6, 24/- & 28/- doz. net respectively
"POPPŒA" CIRCASSIAN CREAM „ 1/2, 2/6 & 3/6 „ 9/6, 24/- & 28/- „
"POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- doz. net respectively.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQUARE, LONDON, W.1.

THE ONLY POPULAR SHILLING FACE CREAM ON THE MARKET

Ven-Yusa Cream

IS STILL ONE SHILLING.
GIVES YOU 33⅓% PROFIT ON SALE
BEST TERMS FOR **50/-** PARCEL



DAINTY AND ATTRACTIVE FOR THE COUNTER.

BEAUTIFUL SHOWCARDS SUPPLIED.

Any War Packages (Plain Corks) exchanged Free of Cost.

Write for Window-Show Terms to

C. E. FULFORD, Ltd.

CARLTON HILL, LEEDS.

Think it over!

THESE ARE JUST THE LINES YOU WANT.



"Leona" Series are of tip-top quality, beautifully packed, well advertised, leave you a good profit, and are on the P.A.T.A.

"LEONA" DENTAL CREAM
(Mint or Thymol)

Small Size ... Cost 4/6 per dozen Sell @ 7½d.
Large Size ... „ 8/- „ „ „ @ 1/3

Recommended by the Institute of Hygiene.

"LEONA" CREME DE BEAUTE
Cost 12/- per dozen Sell @ 1/6
A Delightfully Perfumed Vanishing Cream packed in handsome 2-oz. opal pots.

"LEONA" BRILLIANTINE (SOLIDIFIED)
Cost 8/6 per dozen Sell @ 1/-
Packed in beautifully embossed tins and cartons.

POUDRE "LEONA"
Cost 8/- per dozen Sell @ 1/-
Richly perfumed and packed in gold-blocked boxes.

Every Line is a work of art.

Ask your wholesaler to show them to you, and

YOU WON'T REGRET IT

Sole Manufacturers and Proprietors—
THE JACKSON CO., 172 St. JOHN STREET, LONDON. E.C. 1.

Daily Mail
MILLION SALE
LONDON MANCHESTER PARIS NO. 3,448 FRIDAY, FEBRUARY, 20, 1920 ONE PENNY



EUCRYL

"Makes teeth like Pearls"

AN American admirer of the British speaks of their "beautiful white teeth," and indeed the British are notoriously fastidious in all matters pertaining to cleanliness. That is why Eucryl Dentifrices have so great a vogue.

Cleanliness of the teeth is an insurance against decay not only pride in one's appearance, therefore, but sound commonsense dictates the daily use of Eucryl. For Eucryl is strongly antiseptic, fatal to all injurious germs—a purifier, preserving the health of the gums, teeth, and of the whole mouth.

The steadily increasing popularity of Eucryl Tooth Powder with discerning men and women during the last 20 years has been solely due to the persistent recommendation of it by users who had discovered its superlative merits.

Eucryl Tooth Powder is a pure white compound, readily soluble, and free from grit. It has a delicious flavour and leaves the mouth cool and fragrant. It cleanses and polishes the teeth more completely than any other dentifrice.

From the Dentist's point of view, whether Eucryl paste or Eucryl powder is used is immaterial—the result is the same so long as it is used morning and night. For the regular use of Eucryl helps him by closing the door to the claim of germs that cause Pyorrhœa and other diseases of the teeth.

To those who prefer paste to powder we commend the use of Eucryl Tooth Paste—*the Paste with the delicious Eau-de-Cologne flavour*.

We suggest the alternating of Eucryl Powder and Paste.

Paste in the morning—powder at night
Make the teeth healthy—pearly and white.

Eucryl cleanses searchingly, polishes the enamel thoroughly, and preserves and intensifies the natural lustre—making the teeth "like pearls."

Ask your chemist what he thinks of Eucryl.

Eucryl Dentifrices reach the consumer in a state of supreme purity which cannot be surpassed. They are manufactured exclusively from the finest, purest and most expensive ingredients, and from the time the raw materials enter the Eucryl factory they are never touched by hand, the whole process of manufacturing being conducted by automatic machinery.

Eucryl is entirely British owned and British made by British labour — buy only the all British dentifrice and so help to adjust the adverse rate of exchange.

Sold by all Stores and Chemists

EUCRYL Ltd., 138 Borough High Street, S.E. 1

Eucryl Tooth Paste in Tubes 1/3d *Eucryl Tooth Powder in Tins 1/2d*

Facsimile of Advertisement appearing on front page of "The Daily Mail," 20th February.

Eucryl Advertising brings customers to your shop, and Eucryl bonus terms give big profits on each customer's purchase. Increase your turnover on Eucryl—the line that pays you best.

Write to-day for our window and counter display bonus terms.

EUCRYL Ltd., 138 Borough High St., Southwark, S.E.1

LINDOL

ANTISEPTIC

DENTAL CRE

& DENTAL POWD



ST INTEREST YOU ON THREE VITAL INTS:—

Generous profit for selling.
High Grade Quality.
British Manufacture.

Just examine this table of costs and profits and you will be convinced that "LINDOL" is worth an immediate order.

	Minimum Retail P.A.T.A.	Price per dozen.	Profit on Outlay.
NTAL CREAM. bes, $4\frac{1}{2}'' \times 1''$, in cartons.	**1/-**	**5/10d.**	**112½%**
NTAL CREAM. bes, $4'' \times \frac{3}{4}''$, in cartons.	**7½d.**	**3/8d.**	**112½%**
NTAL POWDER. ns.	**1/-**	**5/6d.**	**126½%**
NTAL POWDER. ns.	**7½d.**	**3/4d.**	**133½%**

ns: Monthly account $2\frac{1}{2}\%$ discount. Cash with order: dditional $1\frac{1}{4}\%$ discount.

mum direct parcel: **50/-,** unless cash is sent with order. can obtain "LINDOL" from your usual wholesaler on terms *for any quantity*, however small.

Selling Agents for the Provinces, Ireland & Export:

Messrs. PATTINSON & MACKIE, Ltd.,
Albion House, 59 New Oxford Street,
London, W.C. 1.

Sole Manufacturers:

E. CARRERAS, 207 King Street, Hammersmith, LONDON, W. 6.

CHARLES MIDGLEY LIMITED
(Est. 1833).

Telegrams:
Midgley Chemist Manchester.

Telephone:
City 7665-7666.

4 Exchange Street,
(St. Ann's Square),
Manchester.

27/2/1920.

Dear Sir,

The large and rapid development of our manufactures —notably Medicated and Toilet Soaps—during the last few years has rendered difficult, if not altogether impractical, the carrying on conjointly with the same of our Retail department. As a result of negotiations, we have decided to merge the Wholesale and Manufacturing departments of our business with that of Messrs. George Holliday & Co. Ltd., Manchester. The combination of strength thus secured will, we are confident, increase our facilities for giving better service to our clients.

The buildings previously tenanted by Messrs. George Holliday & Co., Ltd., in City Road, Manchester, have been purchased by the amalgamated concerns, and have been altered and enlarged to accommodate the joint manufactures.

The Registered Office of the Retail business will now revert to 4 Exchange Street, as above, to which address all communications relative to the Retail and Electro-Therapeutic Departments should be sent.

All wholesale accounts due from or payable to the undersigned will, as from March 1st, be taken over by Messrs. George Holliday & Co. Ltd., 325 City Road, Manchester.

Yours faithfully,

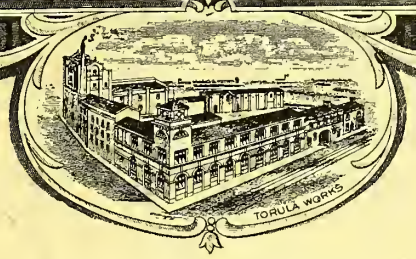
CHARLES MIDGLEY LIMITED

Chairman & Managing Director :
ERNEST G. NICHOLS.
Directors :
ANCIS H. SPROTT, M.P.S. | WILLIAM KIRBY, M.P.S.
K. MILLER, F.I.C., F.C.S. | R. HUME ADAMS.

Telephone : 2109 Central.
Telegrams & Cables:
"MEDICATED MANCHESTER."
Codes : A B C 5th Edition & Marconi International

GEORGE HOLLIDAY & Co. LTD.

MANUFACTURING CHEMISTS. PERFUMERY & SOAP MAKERS.



Manufacturers of
TORULA," LILLIPUT," "VINE-EAF," "VINTAGE" "VINEBUD" and "MEDICURA" SOAPS.
IDGLEY'S SOAPS, MEDICATED and TOILET
Sole English Distributors of
DUMA PERFUMERY, Etc.

Departments
CHEMISTS' TOILET PREPARATIONS, CHEMISTS' MEDICAL PREPARATIONS,
TOILET & DRUGGISTS' SUNDRIES
DRUGS, CHEMICALS, OILS.
Central Distributing Depot for Leading Proprietary Articles.
SPECIALISTS IN "OWN NAME" SOAPS.

325 City Road,
MANCHESTER

our Ref. :.....

ur Ref. :.....

27/2/1920.

Dear Sir,

We have pleasure in announcing to the Trade that we have entered into an arrangement with Messrs. Charles Midgley Ltd. to take over the wholesale and manufacturing portions of their business, including their well-known series of Medicated and Toilet Soaps, the distribution and control of Duma's French Perfumery, Medicura Soap, etc. etc. Both businesses will be centralised at our warehouse and works situate as above, and all communications should be addressed to our Registered Office, 325 City Road, Manchester.

The entire personnel of the wholesale and manufacturing departments of Messrs. Charles Midgley Ltd. will be taken over by us, so that clients may rely on the uninterrupted continuance of that personal attention to and understanding of their requirements which have been previously entrusted to Messrs. Charles Midgley Ltd.

The additional strength obtained under this arrangement, following our absorption of the business of the Torula Syndicate Ltd., justifies us in inviting your commands. We have in the course of preparation catalogues which will be available in due course.

Yours faithfully,

GEORGE HOLLIDAY & CO. LTD.

PROPRIETOR — A.H.GLOVER.

Best Delphinus MFG.CO. British

TRADE MARK.

SPECIALITIES

Nail Polish, Antiseptic
Cloth Cleaner, Styptic Pencils &
Solidified Brilliantine, Shaving Blocks,
Dental Cream, Pomade Hongroise,
Bay Rum, Dry Shampoo,
Etc.

Maximum Quality! Minimum Cost!

Exports to all parts. CABLEGRAMS HONGROISE BRIGHTON. Enquiries invited.

COPYRIGHT.

45 Edward St., TELEGRAMS Brighton.

It is important to note that each Bottle is guaranteed airtight under all climatic conditions.



"KRASKA"

USED BY ROYALTY.

The only Perfect Liquid Nail Polish.

MADE IN TWO COLOURS,
ROSE AND NATURELLE.

Kraska Nail Polish ...	small	9/6 per doz.	Retail 1/2	each.
,, ,, ,,	...medium	12/6	1/8	,,
,, ,, ,, ...	large	19/-	2/9	,,
,, Hand Balm ...		10/-	1/2	,,
,, Bleaching Fluid		10/-	1/2	,,
,, Cuticle Cream		10/-	1/2	,,

Obtainable at All Wholesale Houses.

SOLE AGENTS:

FRANCISCO MAYER, Casilla 2869, Santiago, Chili.
C. E. COLLINGE & CO., 143 Cannon Street, London, E.C.4 *China & Straits Settlements.*
Mr. J. WINKEL, 21 Bierkade, The Hague, Holland.
A. E. & F. TOLLEY, Ltd., 26 King Street, Sydney, N.S.W. *Australia, New Zealand, India.*

Other Agents Entertained.

THE KRASKA CO. LTD.

7 BLENHEIM STREET, NEW BOND STREET, LONDON, W.1.

"CUTEX" NAIL PREPARATIONS

NORTHAM WARREN CO., MONTREAL AND NEW YORK

OU ARE LOSING USINESS IF YOU RE NOT CARRY-NG A FULL STOCK

"CUTEX" Manicuring Preparations

	Retail.	Dozen
"Cutex," The Ideal Cuticle Remover (Small)	2/6	21/6
"Cutex," The Ideal Cuticle Remover (Medium)	5/-	43/-
"Cutex" Nail White	2/6	21/6
"Cutex" Nail Polish Cake (White)	2/6	21/6
"Cutex" Nail Polish Cake (Pink)	2/6	21/6
"Cutex" Nail Polish Cake (Trial Size)	1/-	7/-
"Cutex" Nail Polish Powder ...	2/6	21/6
"Cutex" Nail Polishing Paste (Pink)	2/6	21/6
"Cutex" Nail Polishing Paste (Plain)	2/6	21/6
"Cutex" Liquid Nail Enamel ...	3/-	25/6
"Cutex" Cuticle Comfort ...	2/6	21/6
"Cutex" Nail Bleach (Powder)...	2/6	21/6
"Cutex" Rouge	2/6	21/6
"Cutex" Compact Manicure Set	3/6	31/-
"Cutex" Travelling Manicure Set	11/6	93/-
"Cutex" Boudoir Manicure Set	22/-	186/-
"Cutex" Nail Polish Stick ...	2/6	21/6
"Cutex" Cold Cream	2/6	21/6

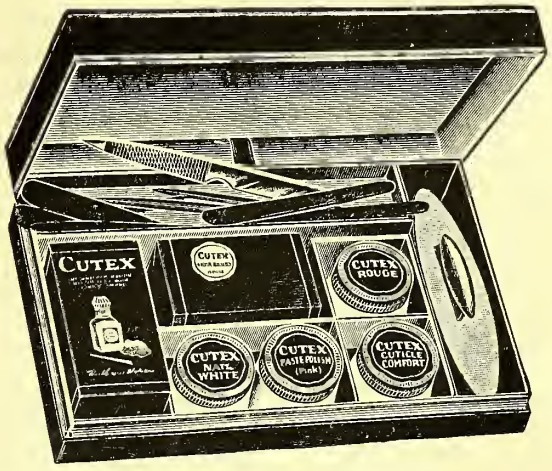
THESE PREPARATIONS CAN BE OBTAINED FROM ALL WHOLESALE HOUSES



No. 16 COMPACT SET



No. 17 TRAVELLING SET



No. 18 BOUDOIR SET

SOLE AGENTS:

HENRY C. QUELCH & CO.

& 5 LUDGATE SQUARE, LONDON, E.C. 4

SPECIAL OFFER OF HIGH-CLASS SAFETY RAZORS

BRITISH MADE THROUGHOUT

THE RAZOR handle is of finest workmanship, nickel plated on brass, with curved top, and is finished in first-class style. There are two bright metal sheaths, and three excellent blades (6 cutting edges). The whole enclosed in a smart well-made case. Where preferred the customer's own name can be placed on the box, the only extra expense being for fresh name card.

THESE RAZOR SETS always give the fullest satisfaction and are quite the equal of many largely advertised American and other makes sold at 21/- and upwards.

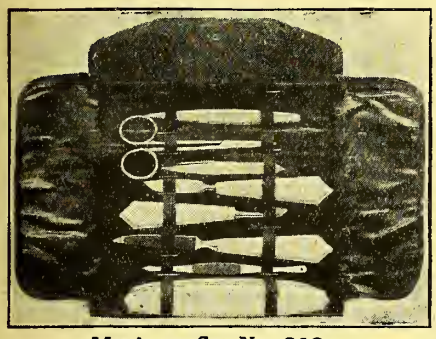
Cash price **45/-** per dozen. No waiting—orders can be filled from stock. Special quotations for large quantities.



LONDON RAZOR CO.,
102 BOLEYN ROAD,
LONDON, E. 16.

BEAZ (Blackpool) LIMITED

Special Offer of Handsome Wallet Manicure Sets.

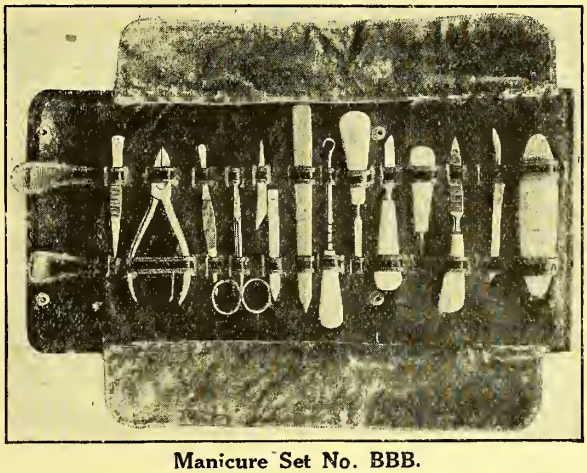


Manicure Set No. 318.
Folding wallet design in Basket Pattern leather, containing 9 Instruments, ivorina handles. **25**/- each.



Manicure Set No. 8600.
Folding purse pattern in leather, containing cuticle scissors, flex. file, bone cuticle pusher and tweezers. **5/6** each.

Also a fine range of Polisher Buffers in Ebony, Satinwood and Ivory.



Cuticle, Nail and Surgical Scissors.

Manicure Set No. BBB.
Wallet design in black leather, lined blue or purple plush, containing 14 instruments. Mother of pearl handles, superior finish, best quality throughout. **42**/- each.

The items here displayed are only a few of the host of Bargains we have to offer, and if you are a Keen Business Man you will send a postcard to-day for SAMPLES AND PRICE LIST.

BEAZ (Blackpool) LIMITED

Bees Buildings - - BLACKPOOL

Telegrams: "Manicure Blackpool." Telephone: No. 923.

A LIVE FIRM FOR LIVE CHEMISTS.



LAMP-BLOWN ARTICLES

SUCH AS

Test Tubes, Ampoules and Vials.

We have the greatest pleasure in intimating that not only are we making the above articles, but have every facility for reasonably quick delivery.

We also feel a pardonable pride in being able to train wounded soldiers for some of this work, and who are imbued with the ideas and high standard these productions demand.

We also have large stocks of Medicals, Kalis, Limes, Vials and Perfumery Bottles. We can always fix you up with something from stock.



JULES LANG & SON, Charlton Works, Charlton Place, ISLINGTON, LONDON, N.1.

Telegraphic Address: "Assorted, Phone, London." Telephone: North 2770 (3 lines).

WE MAKE GLASS BOTTLES

ESTABLISHED TRADE MARK 1880.

All kinds, Shapes and Colours. Plain, Screw-capped and Stoppered.

GEO. G. FORSYTH,

A. RUCH & CO., LTD.

28 Martins Lane, Cannon Street, LONDON, E.C. 4.

Only Wholesale Quantities Supplied.

Phone: Central 4799. Telegrams: "Sennock, Cannon, London."

ZEAL'S REGISTERED

Clinical Thermometer

The "REPELLO"

Requires no shaking down. *Guaranteed Accurate.*

A 30-Second Pushed back in an instant.

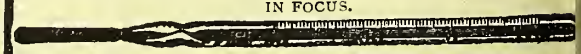
Good Selling Lines for Chemists

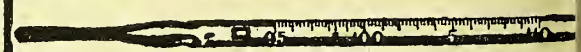


NEW IMPROVED LENS FINDER

The only Easy Reading Magnifying Clinical Thermometer on the Market.

IN FOCUS.





OUT OF FOCUS.

The square mark engraved on lens front locates the Mercury column immediately.

SPECIAL AWARD AND GOLD MEDAL, NEW ZEALAND 1907.
SILVER MEDAL, INDIA 1909. SILVER MEDAL, LONDON, 1913.

G. H. ZEAL, 82 Turnmill St., **LONDON, E.C.**

Wholesale Manufacturer of

CLINICAL THERMOMETERS.

CONTRACTOR TO H.M. GOVERNMENT.

Established 1888. Telephone No.: 12438 Central.

Telegrams:
"Refreshing, Cent, London."

ENTIRELY BRITISH

Telephones:
Central 4461, 4462.

ALL-GLASS SPRAYS, MEDICAL & SURGICAL GLASSWARE

Manufactured by

R. J. REUTER

Established 1892.

MANUFACTURER OF AND DEALER IN CHEMISTS' SUNDRIES.

HEAD OFFICE: 69 CARTER LANE, LONDON, E.C. 4.

Factory:
19-20 OLD BAILEY, E.C. 4.

Scientific Glass-Blowing Works:
32 ST. ANN'S CHAMBERS, E.C.

We invite inquiries for all types of Lamp-blown Glassware. As we have our own Glass-Blowing Establishment in London, we are in a particularly advantageous position to quote for and submit samples of All-Glass Throat Sprays, Atomisers and other high-class surgical requisites. Price Lists on request.

Trade 'Vēvax' Mark Oro-Nasal Inhaler (All-Glass)



Reg. No. 665091.

Can easily be sterilised, and is therefore pre-eminent for the application of medicated vapours to the respiratory tracts. Enables the vapour to be inhaled by the nose and mouth at the same time. . Issued in neat slide boxes suitable for pocket, with small bottle for medicament.

Price 14/6 per doz., subject.



No. 1 'ARISTON' Cloudiser (All-Glass)

Produces a perfectly nebulous vapour from either oily or heavy aqueous solutions.

Price 39/- per dozen, subject.

It may be fitted with spare pieces for Nasal, Post-Nasal or Laryngeal treatment.

Price 4/- per doz. extra, subject.



'VĒVAX'
Trade Mark
Pocket Cloudiser
(ALL-GLASS)

Extremely compact. Highly efficient. Thoroughly aseptic. Suitable for either oily or *heavy* aqueous solutions. Will pulverise and sub-divide the heaviest oils into a perfectly nebulous cloud.

Price 46/- per dozen, subject.

IT WILL PAY YOU TO VISIT OUR SHOWROOM.

TRADE B&B MARK

The House of BAISS

established in London nearly a century ago, is now one of the foremost houses for the Manufacture and Supply of

FINE CHEMICALS
for Medicinal Purposes.

DRUGS.

PHARMACEUTICAL PREPARATIONS
of All Kinds.

ESSENCES and ESSENTIAL OILS.

HOSPITAL EQUIPMENT and SURGICAL INSTRUMENTS
etc. etc.

Quotations given, and goods Packed for Shipment to all parts of the World.

PRICE LISTS IN VARIOUS LANGUAGES.

BAISS BROTHERS & COMPANY, Ltd.

Wholesale and Export Druggists, Manufacturing Chemists and Makers of Surgical Instruments.

Contractors to His Majesty's Government ; the Crown Agents for the Colonies ; various Foreign Governments ; and the principal Hospitals and Institutions at Home and Abroad

Grange Works, 174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.
Drug and Herb Farm : CARSHALTON, SURREY.

GERMOLENE

Trade Mark. Regd all Countries.

THE ASEPTIC SKIN DRESSING

AND

GERMOLETS

In Tablet form, for Blood and Skin Troubles.

Mr. Chemist—

We are busy—too busy to have to take on your job and execute orders from the public, but we can't afford to turn away business. Below is a selection from our mail, people want and will have Germolene and Germolets.

1/2/20. LONDON, N.1.

I have tried to procure your Germolene at Shops in North and West London without success. I shall be glad therefore if you will be so good as to forward a tin to the above address for which please find enclosed P.O. value 1/3.

2 Feb. 1920. HEREFORD.

Would you kindly forward me a box of your Germolets for which I enclose 1/3 for same.

I got a tin of your Germolene and I cannot get the Germolets. I tried ——— and several other Chemists and they said they had not got them. I saw them advertised in our paper, "The Post."

Feb. 5/20. EDGBASTON.

I enclose P.O. for 3/- and shall be glad if you will send me a Tin of Germolene. I have tried at several Chemists in Birmingham, but have been unable to get it.

We want you to profit from the Sales our advertising creates—your success is our success—moreover a satisfied customer is your best asset!

ORDER SUPPLIES NOW!

PROVISION HAS BEEN MADE FOR PROMPT DELIVERY IN ANY QUANTITY.
P.A.T.A. MINIMUM RETAIL PRICES 1/3 & 3/-. WHOLESALE HOUSES CAN SUPPLY AT ONCE

WINDOW SHOW TERMS.

Minimum orders, £10 assorted—GERMOLENE, VENO'S LIGHTNING COUGH CURE, Dr. CASSELL'S TABLETS, etc. 5% allowance for Window Display, and *pro rata* larger orders.

2½% discount for cash in 30 days. **ALL GOODS CARRIAGE PAID, IN FREE BOXES.**

Sole Manufacturers and Distributors—

THE VENO DRUG CO., LTD.

Manufacturing Chemists,

MANCHESTER, ENGLAND.

Telegrams: "SEAWEED MANCHESTER." Telephone: 422 TRAFFORD PARK.

LIQUID PARAFFIN B.P. 1914

EXCLUSIVELY REFINED FROM

RUSSIAN CRUDES.

ALL GRAVITIES. HIGHEST VISCOSITIES.

"JASMINE BRAND" **ADEPS LANÆ B.P.** Superfine Anhydr. and Hydrous.

LANOLINE.

"JASMINE BRAND" **PETROLEUM JELLIES B.P.**

White and Yellow Tasteless and Odourless.
Natural Filtered and Opaque.

"JASMINE BRAND" **WHITE OILS** Chem. Pure, Water White, Tasteless, Odourless.

FOR MANUFACTURING PURPOSES.

All Our Products are Guaranteed of Finest Qualities and Our Prices are Competitive.

THE PURE RUSSIAN LIQUID PARAFFIN CO., LIMITED.

3 ST. HELEN'S PLACE, LONDON, E.C.3.

Actual Refiners and Manufacturers at their Works near London.

THERMOGENE

Trade Mark Regd.

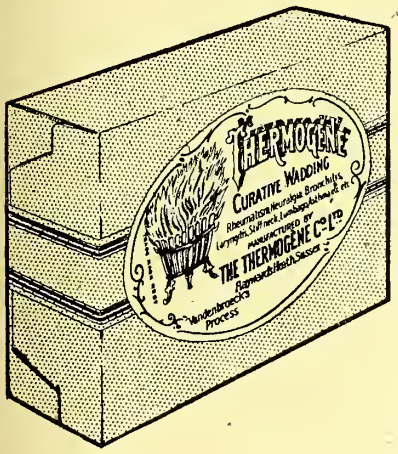
Nature's First Aid.

The demand for Thermogene Curative Wadd ng during 1919 showed an *increase* in Sales—over the previous best year (1918)—of

800,000 Boxes

This is entirely due to the wonderful efficacy of Thermogene, plentiful supplies of which are now available.

Look for the orange-coloured box in the Chemists' windows.



Write for terms to

THE
THERMOGENE Co., Ltd.,
Haywards Heath,
Sussex.

FASSETT & JOHNSON,
86 Clerkenwell Road,
London, E.C.1.

G. R.

MINISTRY OF MUNITIONS

By Direction of the Disposal Board

(Textiles, Leather and Equipment Section).

FOR SALE BY TENDER.

Tenders are invited for the purchase of the following items :

WHITE GOWN OVERALLS

(Fastening at the back, with long sleeves).

This is a good, strong garment, completely covering the wearer from the neck to nearly the feet. It has long sleeves, fastened with buttons at the wrist, and is secured by tapes at the back.

There are about 18,000 for disposal in the following approximate proportion of sizes per 1,000 :—

MEDIUM.	LARGE.
390	610

WHITE DRILL OVERALL SUITS

(Fastening at the front, with long sleeves and two cross pockets).

This is a one-piece garment of the Boiler Suit Type, split to the waist and fastening with buttons in front, and two cross pockets, one on each leg. Each suit is complete with a detachable Hood of the same material.

There are about 23,000 for disposal, in the following approximate scale of sizes per 1,000 :—

SMALL.	MEDIUM.	LARGE.
287	600	113

APRONS, WHITE, FOR COOKS.

This is a strong white apron, with a bib and tape to go round the neck. There are about 12,000 for disposal, and they are all of one size.

APRONS, WHITE.

This apron is similar to the aprons for cooks, but has a double pocket on the right hand side. There are 3,500 for disposal, and they are all of one size.

OVERALL APRONS, WHITE.

(Fastening at the back).

This garment is somewhat similar to the White Gown Overalls, but has short sleeves, and a belt round the waist. There are 10,000 for disposal, and they are all of one size.

All the above Garments are for sale in lots of not less than 25 of each item.

The White Gown Overalls and White Drill Overall Suits will be sold in mixed sizes in the proportions shown above. Offers for special sizes cannot be entertained.

The Garments are stored at the ROYAL ARMY CLOTHING DEPARTMENT, GROSVENOR ROAD, S.W. 1, where they may be inspected on presentation of a Tender Form between the hours of 10 a.m. and 12 noon and 2 p.m and 4 p.m. on any day except Saturday.

Tender Forms, containing full particulars, can be obtained on application to the Controller, D.B.3.b.2, Ministry of Munitions, Earl's Court, London, S.W. 5 (Telephone : Hammersmith 2300), and are to be returned not later than 10 a.m. on Monday, March 8th, in the envelope provided for the purpose.

LONDON.—Samples representative of the bulk may also be seen at the Office of the Controller D.B.3.b.2, Ministry of Munitions, Block C, Earl's Court Exhibition, Warwick Road, S.W. 5; City Office, M. of M. Disposal Board, Holland House, 32 Bury Street, St. Mary Axe, E.C. 3; and also at the following centres :—

BELFAST.—Central Stores Dept. Depot, Victoria Street.
BIRMINGHAM.—M. of M., Room 15, 111 New Street
BRISTOL.—3 Unity Street, College Green.
CARDIFF.—M. of M. of War (Room 25), Principality Buildings.
COVENTRY.—M. of M. Chamber of Commerce, Masonic Buildings.
DUNDEE.—Flax Office, 10 Victoria Street
DUBLIN.—Pattern Room, 124 Lower Baggot Street.
GLASGOW.—Pattern Room, M. of M., 250 St. Vincent Street.
LEEDS.—Chamber of Commerce, 26 Park Row.
LEICESTER.—Chamber of Commerce, 3 Granby Street.
LIVERPOOL.—Chamber of Commerce, Liverpool
MANCHESTER.—Danlee Buildings, Spring Gardens.
NOTTINGHAM.—Chamber of Commerce, Eldon Chambers, Wheeler Gate.
NEWCASTLE.—Chamber of Commerce.
PRESTON, LANCS.—Chamber of Commerce, 108 Fishergate.

NOTE.—For particulars of other Government Property for sale see "SURPLUS," price 3*d.* at all Bookstalls; or by quarterly subscription of 2*s.* post free, payable in advance to the Director of Publicity, Ministry of Munitions, Whitehall Place, London, S.W. 1.

ESTABLISHED OVER 100 YEARS
JAMES F. WILKINSON
MEDICAL LABEL PRINTER
LITHOGRAPHER, ENGRAVER &
TRADE MARK AGENT.
BURY STREET
PENDLETON
MANCHESTER
Telegrams—"Reindeer," Manchester.
Telephone—City, 1102.

For GUARANTEED
ATOMIZERS and SPRAYS
THE DEVILBISS CO., LIMITED,
71 NEWMAN STREET, LONDON, W.

TOILET PAPER
12 oz. ROLLS 72/- PER GROSS
BRITISH PAPER PRODUCTS C
5 Aldgate Avenue, LONDON, E.1. Phone: Avenue

BOXES
For the Chemist, Druggist and Sundries
Send your Sizes or Samples, and we will quote you by return. No order too small. No order too large. We *KNOW* your wants and will fit you.
J. DAVIDSON,
98 Shepherdess Walk, City Road, London,

Be ready for the Cheese-making Season
Sell

RENNASE

The Milk-Curdling Ferment

Recommended as Equal to Standard Rennet.

RENNASE should be used under precisely the same conditions as Rennet. If these conditions are closely observed Rennase produces a finely flavoured curd that will ripen rapidly.

Two teaspoonfuls of Rennase should be added to every five gallons of properly conditioned milk, which should be at least twelve hours old, or of an acidity of approximately 15° to 20°, and should be maintained at a temperature of 82°F. to 95°F., according to the weather.

Due allowances must be made for the seasons of the year, the varying temperatures and the acidity of the milk, and, as a consequence, the above proportions may have to be increased or decreased as the conditions demand.

Rennase is of uniform strength and must be kept in a cool dark place, well corked.

A Striking Testimonial.

This Letter was sent to us by one of the largest Cheese Makers in the United Kingdom:

Dear Sirs,
I set the curd at 86°F. and treated it in exactly the same way as any other barrel of cheese. The milk coagulated in the usual time—about 1 hour. I added the Rennase to the milk in the proportion of 5 oz. to 100 gallons, and it made a nice firm curd, splitting cleanly over the finger, and when cut and stirred, the whey soon settled. When ready for grinding the curd had a very nice texture, a clean acid smell, and drew threads ¾-in. on the hot iron.

Supplied by all leading Wholesalers in these Sizes:

8-oz. Bottles per doz.	**18/-**	½-gallon Bottles each	**12/-**
16 „ „ „	**34/-**	1 „ „ „	**22/6**
Quart „ „ each	**6/-**	5 „ Casks per gal.	**20/-**

ARMOUR & COMPANY, Ltd.

Queen's House,

Kingsway, London - W.C.2.

Armour's LABORATORY PRODUCTS

Telephone: Holborn 5900. *Telegrams: "Armosata, Westcent, London."*

JOB BROTHERS

GUARANTEED PURE GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

IS THE FINEST OIL PRODUCED

It is perfection in colour, smell, taste and absolute purity.
Manufactured from the finest fresh Cod Livers on same day as fish caught.

WHOLESALE ONLY

JOB BROS., Manufacturers, Tower Building, LIVERPOOL

Telegraphic Address: "JOB LIVERPOOL" Tel.: 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

"John Bull"



MALT EXTRACT

IS THE BEST!!!

Wholesale & Export Only.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

New Showcards for the New Year

SANATOGEN :: FORMAMINT

GENASPIRIN.



WE have just received a few hundred advance copies of various new showcards ordered in 1919.

Artistic productions, in the best sense of the word—one of them was designed by a famous sculptor—they represent the highest grade of colour-printing, material and workmanship.

Also they possess strong advertising and selling power—that eye-catching quality which makes the public stop, look, and purchase.

Retail pharmacists who desire to show these cards should apply for them *at once*, for deliveries are so slow and uncertain nowadays that we can only offer them on the principle of "first come, first served."

GENATOSAN LTD. (*British Purchasers of Sanatogen Co.*)

12 CHENIES STREET, LONDON, W.C. 1

COMBS

Combs are always in demand and the Chemist who displays them gets the Business. Below is a selection of good selling lines—try a few of them.

Ladies' Dressing Combs

No.		Size	Per Doz.
171	White celluloid... ...	7 × 1½ in.	6/6
103	Black ,, ...	7 × 1½ in.	6/6
102	,, ,, ...	8 × 1¾ in.	7/6
112	Dove colour, non-inflammable	8 × 1½ in.	9/-
123	Assorted ,, ,,	7 × 1¼ in.	9/-
121	Black celluloid burr grailled ...	7½ × 1¼ in.	13/6
116	Shell ,, ,, ...	7½ × 1¼ in.	13/6
173	Black ,, ,, ...	8 × 1½ in.	14/6
168	White ,, ,, ...	7½ × 1¼ in.	18/-
150	,, ,, ,, ...	8 × 1½ in.	24/-
106	,, ,, ,, ...	8 × 1¾ in.	27/-

Ladies' Rake Combs

No.		Size	Per Doz.
167	White celluloid burr grailled ...	6½ × 1¼ in.	12/6
117	,, ,, ,, ...	7½ × 1½ in.	21/-
115	,, ,, ,, ...	7½ × 1¾ in.	22/-
174	,, ,, ,, ...	8 × 1¾ in.	27/-

Gents' Dressing Combs

148	Mottled colour, non-inflammable	5½ × 1 in.	8/-
140	White celluloid... ...	7 × 1 in.	9/-
143	Black vulcanite ...	7 × 1 in.	10/6

Gents' Pocket Combs

163	Special line, assorted, in cases ...		4/6
175	Shell celluloid, in cases	4½ × ⅞ in.	7/6
160	Black, non-inflammable	4¼ × ¾ in.	12/-

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Rubber Sponges, Splints, Sponge Bags, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

ILLUSTRATED PRICE LIST POST FREE. OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, Ltd.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

CLAIM YOUR SPIRIT REBATE.

Keep a record of receipt and use as required in the Order, and obtain the repayment.

OUR RECORD BOOK IS

3/-

Post Free.

(See *C. & D.*, Jan. 3rd, page 76.)

JAMES TOWNSEND & SONS,

EXETER and LONDON.

Painting Materials

If you stock these lines, it will pay you to write us for complete price list. Read the following extract from letter received:—

"Please forward the following... This is my seventh order this season. Your goods are the best selling line we have."

All the following goods are of standard quality, give satisfaction to your customers and show a good margin of profit:—

RAYOLENE READY MIXED PAINT
SPECIAL DECORATORS' QUALITY.
Supplied in 1, 2, 4, 7 and 14-lb. tins.

"TEXALO" The Ideal WATER PAINT
Twenty Beautiful Shades. In Tins and Bulk.

"FLINTEX" Dry Sanitary DISTEMPER
In Powder Form. Supplied in 3-lb. and 6-lb. Packets.

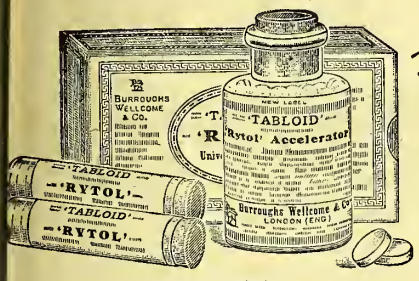
RAYOLENE BLACK JAPAN
The best preparation for Cycles, Fire Ranges, Mail Carts, Gas Stoves, &c.
To Retail at 10d., 1/6 and 2/9.

RAYOLENE OIL VARNISH STAINS
Far superior to methylated spirit preparations.

RAYOLENE HOUSEHOLD DYES
To Retail at 4d. and 6d. per packet.
Shade Cards and Price List Free on request.

TEXALO MANUFACTURING CO.
Paint and Varnish Manufacturers,
SOUTH SHORE, BLACKPOOL, LANCS.

epare for the Easter Photographic trade by ordering now



Reduced facsimile

Products with a ready sale that make the window bright and profitable.

'RYTOL' Universal Developer

TRADE MARK 'TABLOID' BRAND 'RYTOL' TRADE MARK DEVELOPER

Advertise your photographic department early by making a display of 'RYTOL' and 'TANCOL'

Place your orders now, to enable you to get supplies in good time.

The ideal developer for Tank use

'TANCOL'

TRADE MARK 'TABLOID' BRAND 'TANCOL' TRADE MARK DEVELOPER

An early display will bring back last year's customers and secure new ones.



BURROUGHS WELLCOME & CO., LONDON

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Made from the finest British Saccharin. Each tablet guaranteed to contain "Full Strength."

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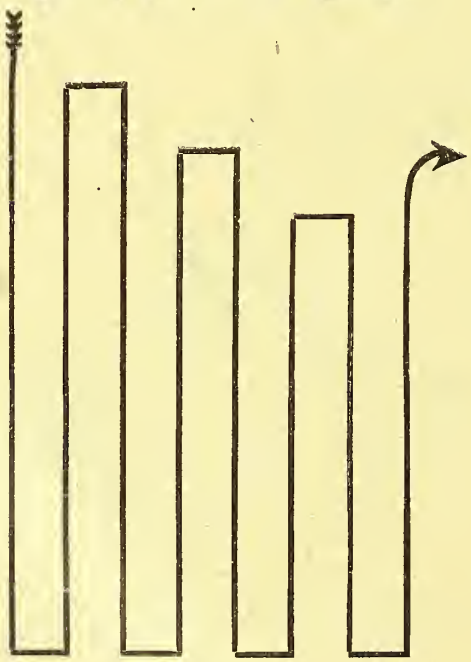
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ESTAB 1859

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COLOUR-TREATMENT AS A REMEDY.—Addressing the ycho-Therapeutic Society, recently, on colour treatment, r. A. A. Frey described the case of a man who, suffer- g from shell shock and the effects of gas, was favour- ly affected by a room where the colour was primrose d speedily recovered

DURING the ten months ended October 31, 1919, the ports of drugs and chemicals into the Union of South rica amounted in value to 910,526*l*., against 1,045,367*l*. the corresponding period of 1918. Medicinal prepara- ns and apothecaries' wares improved considerably in lue, but soda ash, soda caustic, and soda cyanide show ig falling off.

MANGANESE PEROXIDE.—It is reported that shipments ve now been initiated from Australia on a limited scale, e peroxide running about 80 per cent. of pure man- nese, but the terms have not yet been disclosed. There no doubt that efforts are being made to develop the nganese industry in Australia, and that good quan- ies of ore will eventually come to this side. There is ample supply of peroxide of manganese in this country, t requirements seem fairly well covered in contrast to nganese ore for the blast-furnaces. Fair quantities of roxide are utilised for glass manufacture, but the buy- g in that direction will probably become centralised as e result of the important combinations which have taken ace in the glass industry.

Experiences of the Great War.

Contributions to this section are invited.

XXIX.—Pharmacy in the Holy City.

THERE is a famous street in Jerusalem called "Suk-el-attareeil," or the "Market of the Apothecaries"—more literally, "of the Essence Makers." It is near Christian Street (they say Christians used to live there, but now!) With a faint hope of finding some rare Oriental drugs, I sought it out on a Saturday, and found the shops—or rather stalls, for it is a narrow Eastern bazaar—nearly all closed. I tried my luck again on Monday, and found them open; but, alas! there was little of interest. In the days of Haroun-al-Raschid it may have been a market for exotic drugs, but now its glory has departed. The shops retail oddments not to be had elsewhere in what we might call huckster-ware or marine-store dealers'. Some simple drugs are to be found there—sulphur, soda, salts, nitre, spices—but the bulk of the stock consists of peas, beans, shoes, strings, saddle-bags, leather straps, and various odd articles of little worth. There were, indeed, a number of round boxes—like cheese drums, but of much smaller size—labelled in Arabic, which, frankly, was Greek to me; but they did not suggest anything very novel or interesting. I do not imagine the native population of Jerusalem is, potentially, very profitable as customers for pharmacy, but there are said to be now, in addition, 50,000 Jews and 75,000 other ranks, or rather races, and one finds that the Hebrew at home is more interested in medicine. I have found even Jews of the poorer classes quite profitable patients when their children are sick. Anyhow, pharmacy is not overdone in Jerusalem—for a city of 125,000, which will have in the future an enormous tourist traffic. Near the Jerusalem Hotel there is an English chemist who can proudly proclaim to all Jerusalem that the shop is "Not out of bounds," unlike so many places in the Holy City. This is an offshoot of a large firm of chemists. There is also a fairly well-equipped French pharmacy and a lovely one of international tendencies. It is very striking how the Greeks take to pharmacy in the East. There is a second tin-hut pharmacy near the Anglican Cathedral, and a few odd ones labelled "Drug Stores," which sell such proprietaries as Eno's, Elliman's, Vinolia, Colgate's, and other evidences of civilisation which follow the British—and American—Tommy to the ends of the earth. There is nothing picturesque, nothing striking, nothing pleasing about pharmacy, ancient or modern, in Jerusalem, but, in my view, it is destined to great developments. Formerly we came there by sea from Jaffa, which is a bit of a journey up the coast. Now you can go—if and when the military authorities let you—from Alexandria or Cairo to Benha, and from that place to Kantara, a place of which you have possibly never heard, such is the humility and the reticence of our Government; but which is, in fact, the greatest camp in the world, far surpassing all other ancient or modern military camps in the world in size and importance. Hitherto all civilians were stopped at Kantara. It is on the Suez Canal, and I first came there on a 15,000-ton liner, which takes its berth at the Camp side—and even recently an officer could not pass beyond that point without a "Movement Order"; but presumably these restrictions have now been removed. The point is that the Royal Engineers have built a railway from Kantara to Ludd and from Ludd to Jerusalem, and you can get, just now, from Cairo or Alexandria to Jerusalem in twenty-six hours, counting stops. One expects that when the line is thrown open a very great crowd of tourists will pour into the holy places, demanding drugs and doctors, as well as hotels. The latter are very few: in actuality two—one near David's Tower and Jaffa Gate, another, to which Service men generally go, that was formerly a German institution—the Hôtel Fast. It is now under the care of the Navy and Army Canteen Board. Veterinary medicine seems an unknown quantity, although, as in the time of Jacob, flocks and herds abound, but agricultural methods are very much as that worthy patriarch left them. Some of our Australian colleagues tell us they do not know everything down in Judea about cultivating land—in fact, that the soil is wasted by their methods. But some of the imported Jewish colonies are being taught modern methods of farming. There is a most delightful bit of the Mouski market in Cairo where the perfumers congregate. Here you see enormous market-bottles of otto of rose lining their shelves —yea, 2-litre bottles of the orthodox size and shape and inscription. There is nothing faintly like this in Jerusalem. The "Market of the Essence Makers" is a very mean thing, and sends forth no grateful aroma to mitigate the

odours of David's city. There is not even that affectation of high-class pharmacy which some of our French brethren's exhibitions have. There you see veritable portraits of Galen and Hippocrates on the fascia-board, and the Galen of present-day pharmacy in Cairo is the exact image of Sir William Whitla! What I like about Eastern pharmacy is the way in which the proprietor sits down at his ease, very often outside his counter. In Britain it is regarded as something improper for a pharmacist to be seen sitting in his shop, the theory being that he is always too busy, but here he never appears to do anything but smoke cigarettes. If you happen to be a great favourite with the old Franciscan who guards the Garden of Gethsemane he may give you a few violets or a sprig of rosemary. The violets, which he plucked for me, were absolutely the most fragrant I had ever smelt. The flowers of Palestine appear to be very sweet, but, judging from the hills—so like those of the Grasse district—lavender, rosemary, jasmin should grow well. Everybody now in Jerusalem goes to see a church, a Lutheran church which the German Emperor caused to be erected after his visit there. It is a magnificent structure—marvellous mosaics—but the point of interest to the Army is the mosaic of the vainglorious Kaiser on the roof of the church, next to that of the Deity. "Sic transit gloria mundi." But the point of pharmaceutical interest is the lavender-plants in the grounds of this church or hospice. When I saw them late in February they were in splendid bloom, but had very little scent. Olive-trees abound, of course; also almonds in glorious blossom, and apricots, many of them the results of the labours of the Jewish colony, and a new species of orange-grafting on lemon-trees. Grapes also grow abundantly. Cairo abounds in pharmacies of sorts. Alexandria is not so well supplied, but will probably have greater possibilities of developing in view of Jerusalem extending offers of openings, though somewhat speculative. The Greek will, I think, overrun the Land of Promise for pharmacy unless we hold out. It seems to all of us—British, American, French, Italians—that the Greek has done best and stands to gain most by the war. But the Greek has the gift of tongues, and one requires to speak Arabic, French, English, and Italian to be able to cope with commerce now. Capt., R.A.M.C. (61/17.)

Coming Events.

Monday, March 1.

"Parke Davis" Cricket and Swimming Clubs, Pillar Hall, Cannon Street Hotel, London, E.C., at 7.15 P.M. Bohemian concert.

Society of Chemical Industry (London Section), Chemical Society's Rooms, Burlington House, Piccadilly, London, W., at 8 P.M. Messrs. T. Martin Lowry, F.R.S., and F. C. Hemmings on "The Properties of Powders," and Messrs. T. Martin Lowry and S. Wilding on "The Setting of Dental Cements."

Tuesday, March 2.

Glasgow Pharmacy Athletic Club, Sloan Café, Argyle Arcade. Supper. Bowling and golfing prizes will be presented.

Wednesday, March 3.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

London Chemists' Golfing Society, 17 Bloomsbury Square, London, W.C., at 8 P.M. Annual meeting.

National Association of Chemists' Assistants (Manchester Branch), Co-operative Hall, Downing Street, Ardwick. Dance (7 P.M. to 10.30 P.M.). Tickets (3*s.* 6*d.* each) from W. Jones, 45 Newland Street, Higher Crumpsall.

Thames Valley Pharmacists' Association, Kingston Hotel, Kingston-on-Thames, at 2.45 P.M. Meeting to consider "Insurance Dispensing Terms, Profiteering Act, etc."

Thursday, March 4.

Chemical Society, Burlington House, Piccadilly, London, W. 1. Ordinary meeting. The lecture on "Some War-time Efforts in Chemical Industry at Gretna" has been postponed.

East Anglia Federation of Pharmaceutical Associations, Red Lion Hotel, Petty Cury, Cambridge. Meeting at 2.30 P.M. Tickets for tea and lunch should be obtained from Mr. S. F. Barker, 46 Chesterton Road, Cambridge, before March 1.

West Ham Association of Pharmacists, Holborn Restaurant, London, W.C., at 6.30 P.M. Annual dinner. Tickets (10*s.* each) from Mr. S. Clifford Jones, 6 Beckton Road, London, E. 16.

Harrogate Pharmaceutical Association.—The annual dinner will be held on March 12.

London Chemists' Golfing Society.—The annual dinner will be held in the Alexandra Hall, Frascati's Restaurant, London, W., on March 24, at 6.30 P.M. Tickets (12*s.* 6*d.* each) from Mr. G. F. Deeth, 40 Cleveland Park Avenue, Walthamstow, E. 17.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Contracts.

The following Government contracts have been notified:

Admiralty.—*Pepper.*—E. & T. Pink, Ltd. *Thermometers.*—A. C. Cossor & Son; T. A. Reynolds & Co.

India Office.—*Bleaching Powder.*—United Alkali Co. Ltd. *Boric Lint.*—Robinson & Sons, Ltd. *Cholera Outfits.*—Burroughs Wellcome & Co. *Cresol.*—Newton Chambers & Co., Ltd. *Forceps.*—Arnold & Sons.

Post Office.—*Methylated Spirit.*—Waters & Co., Ltd. *Petroleum Jelly.*—Silvertown Lubricants, Ltd. *Turpentine.*—Price's Patent Candle Co., Ltd.

Crown Agents for the Colonies.—*Cotton-wool and Lint.*—T. J. Smith & Nephew, Ltd. *Dressings.*—Robinson & Sons, Ltd. *Drugs and Chemicals.*—Burgoyne Burbidges & Co., Ltd. *Hypodermic Syringes.*—Arnold & Sons. *Linseed Oil.*—Price's Patent Candle Co., Ltd. *Magnesium Sulphate.*—Harris, Hart & Co., Ltd. *Medical Sundries.*—S. Maw, Son & Sons, Ltd. *Quinine.*—Howards & Sons, Ltd. *Santonin.*—Society of Apothecaries of London.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Burlton, Nellie King, the wife of a gamekeeper, committed suicide by taking strychnine while of unsound mind.

At Weymouth, the wife of a corporal named Eagles died through taking an overdose of sodium sulphate. At the inquest, on February 23, the coroner described the case as an extraordinary one, adding that there appeared to be no medical record of any similar case. [The annual reports of the Registrar-General for England and Wales show that in 1913 magnesium sulphate was responsible for an accidental death; a similar case occurred in Scotland in 1891, and another in 1898.—Ed.]

At Birmingham, on February 18, an inquest was held on the body of Elsie Crook, who, according to the evidence, had committed suicide by taking a vermin-killer, two packets of which were found in her handbag. Mr. Henry Rigg, chemist and druggist, general manager of Hedges (Chemists), Ltd., stated, in evidence, that the girl had been employed there for about two years, but her engagement ceased on the previous Saturday. The vermin-killer produced was a proprietary article to which the girl had access in her duties in the wholesale department. In answer to the coroner, witness said she would have no difficulty in getting another situation. He offered to give a reference and to allow her time off last week to interview other firms for a situation. A verdict of "Suicide while of unsound mind" was returned.

Birmingham.

Mr. Clinton F. Chance has been appointed a life governor of Birmingham University.

Some firms supplying oil in casks are making no charge for the casks, which remain their property.

The retail section of the Birmingham Chamber of Commerce has asked the Lord Mayor to receive a deputation on the matter of our increased rates.

The window-display of Mr. H. Hague, who has recently taken a pharmacy in Gooch Street, is a "sumpshous" one, the prevailing colours being purple and gold.

Pharmacists are giving preference to the demobilised assistant, and the lady dispenser in the shop and at the counter is not so much in evidence as during the war.

A Birmingham safe-maker is manufacturing a safe which is stated to have a second line of defence when the locks are shattered. The next move appears to be the burglar's.

The handsome materia-medica cabinet referred to in last week's *C. & D.* (p. 46) as having been presented to the Birmingham School of Pharmacy is the gift of Southall Bros. & Barclay, Ltd.

Students, past and present, of Birmingham University will regret to hear of the death of Mr. Joseph Evans, until recently chief porter. He was well known to pharmacists, who used to hold their meetings at the University; and he had charge of the Birmingham Pharmaceutical Association's library.

Dr. Howard Bates, who has lately died with tragic suddenness, was the son of the veteran pharmacist who for many years had a business at Deritend. His brothers, one of whom qualified in pharmacy after a course of study with Mr. F. H. Alcock, F.I.C., Ph.C., have entered the dental profession.

Mr. R. Lloyd Whiteley has been presented with a silver loving-cup and a cheque on the occasion of his retirement from the office of principal of the West Bromwich Science and Technical School. Mr. Whiteley is the author of a well-known book of chemical calculations.

The following, among many others, were present at the ball recently given by the Lord Mayor in the Council House: Sir Alfred Bird, M.P.; Sir Thomas Barclay; Mr. Thomas Barclay; Captain E. C. Bennison, Ph.C.; Mr. Norman Booth; Mr. Arthur Brampton; Alderman F. C. Clayton, Ph.C.; Mr. George Cadbury; Mr. W. A. Albright; Mr. W. Marshall Freeman; Dr. Coole Kneale; Colonel Wyley; Councillor Jeffrey Poole; and Mr. W. F. Southall, Ph.C.

The British Industries Fair (Birmingham) was opened at Castle Bromwich aerodrome grounds on February 23 by the Lord Mayor (Alderman W. A. Cadbury). What will impress colonial and foreign visitors most, it may be hoped, will be the immense variety of goods manufactured in Birmingham. Ward & Goldstone, Ltd., are showing a wide range of their manufactures. In addition to cables and wires of all descriptions, two of their lighting plants are shown, one being the 350-watt set, comprising ¾-h.p. engine and belt-driven dynamo, and the other a 3-h.p. 1,500-watt set, direct coupled. The T.R.S. wiring system is on view. This consists of using flexible conductors under the flat tough rubber-sheathed covering. This cable can be used for surface wiring, and is fitted in position by means of brass saddles, insulated with fibre. The T.R.S. patent connector box enables the installation to be made without a joint of any description. Volex dry batteries are also shown, and a large range of motor-cycle lighting sets. Many of these sets have been used one, or even two, years without the necessity of replacing the battery, which replacement can be made in a few minutes. Siemens Brothers & Co., Ltd., have an interesting exhibit, including the more generally employed forms of electric cells and batteries for the purposes of telegraphy, telephony, signalling, bell-ringing, railway circuits, electro-medical apparatus, and so forth. This company is also exhibiting electric incandescent lamps and lanterns, holophane shades, illuminated signs, and electric radiators.

Liverpool.

The rather sudden death of Lord Russell of Liverpool has created a void in the public life of the city.

A pharmacist sent out his boy to fetch an enema tube on order, and the boy returned with a spring balance to weigh babies. Does anyone see why?

The principal excursion of the British Pharmaceutical Conference in July is to be to Bettws-y-Coed by motor char-a-bancs, starting from the Cheshire side of the Mersey.

Liverpool students, some of whom belonged to pharmacy and some to art, carried out a "rag" the other night, marching through the city in their overalls and labelled "Poison—not to be taken," with other strange devices.

"The Utilisation of Oil Fuel in Chemical Works" was the title of a lecture by Mr. W. P. Dreaper before the local section of the Society of Chemical Industry on February 20. The lecturer described experiments carried out during the war, and said that the superiority in heating efficiency of oil fuel over coal is as two to one.

The Rats and Mice (Destruction) Act, 1919, is likely to be strictly enforced shortly, and chemists should be able to supply the necessary baits and poisons. Local pharmacists have been studying the *C. & D.* articles on the subject (January 17, p. 63; January 24, p. 54; January 31, p. 83; February 7, p. 74). A circular giving information has been sent out by the Liverpool Chemists' Association. Evans Sons Lescher & Webb, Ltd., are advertising their virus in the Press, and it is extensively used in Liverpool warehouses.

Manchester.

Thompson & Capper, Ltd., chemists, are having extensive alterations made to the frontage of their Piccadilly shop.

Lewis's, Market Street, have a show of Sorbo sponges. A model of a fine baby in a bath with a Sorbo makes an attractive centrepiece.

Through the kindness of Mr. Hazell, general superintendent of the Manchester Royal Infirmary, fourteen members of the Manchester branch of Ucal chemists have been taken over the infirmary. The parts which proved of particular interest to pharmacists were the pharmaceutical, *x*-ray, and massage departments. Mr. Butchers, the chief pharmacist, who had charge of the arrangements, made the visit extremely interesting and instructive. Mr. V. Cromack, the secretary of the local Ucal branch, organised the visit.

Sheffield.

The lecture given by Mr. John Humphrey on February 18 was the occasion of a happy reunion of Sheffield chemists.

In appreciation of its first President, Mr. Frank Wood, a "Wood" prize has been established in the glass technology department of Sheffield University.

The Ministry of Labour has appointed Mr. H. W. Stiles, chemist and druggist, Trenchgate, Doncaster, a member of the Sheffield Interviewing Board sitting at Doncaster.

Miscellaneous.

RATS ORDER, 1918.—This Order is revoked as from March 7. The powers under the Order are now included in the Rats and Mice (Destruction) Act.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH.—The new address of this department is 16-18 Old Queen Street, Westminster, London, S.W. 1. Telephone: Victoria 7940.

WINE-LICENCES GRANTED.—At Castle Eden Licensing Sessions, recently, Mr. M. Brown, chemist and druggist, Hesleden, was granted a wine off-licence on the understanding that he will sell medicated wines only.—At the same sessions, a wine-licence was also granted to Mr. W. Y. Orton, chemist and druggist, Wingate, on his giving a similar undertaking.

IN THE COURTS.—At Stafford Assizes, on February 19, Arthur Barker, Tunstall, described as a quack doctor, was sentenced to four months' hard labour for the manslaughter of Frances A. Sharples, wife of an insurance agent residing at Burslem. The evidence showed that the accused, who had previously been a miner, had undertaken to treat patients by a quasi-medical system of his own, issuing pamphlets and charging from 7*s.* to 10*s.* for each visit. In the case in question, death was certified as being due to cystitis, which was attributed to the use of an unsterilised catheter by Barker. No evidence was called on his behalf.—At Salford, recently, two lads named Dunn and Earley were charged with breaking and entering into the shop of Mr. J. A. Dyson, chemist and druggist, Marlborough Road, Hightown, and stealing goods valued at 4*l.* 10*s.* Dunn was ordered six strokes of the birch and Earley was remanded.—At Halifax, recently, a man who had already been arrested thirty-two times for wilful damage was sentenced to three months' imprisonment for breaking the shop-window of Mr. Gibson Dixon, chemist and druggist, Old Market, the cost of the smash being estimated at 19*l.*

LEGAL STANDARD SUGGESTED FOR DISINFECTANTS.—In the course of a recent report on disinfectants the medical officer of health for Deptford states that he considers that the time has arrived when steps should be taken to deal with substances alleged to be disinfectants but

which do not disinfect. He points out that adequate regulations on this subject are already in force in America and in many of our Colonies. The Health Committee of the Deptford Borough Council has adopted the following suggestion: "Any liquid sold as a disinfectant relying on derivatives of coal-tar for its efficiency shall have a co-efficient of 1 when tested by a standard bacteriological test. Further, any article sold as a disinfectant shall be correctly labelled or branded, and a disinfectant shall be considered misbranded if the label or package bears any statement, design or device regarding the article or ingredients or substances contained therein, or its use, which is false or misleading in any particular."

Sugar Vouchers—Period 3.—The following has been issued by the Royal Commission on Sugar Supplies:

Having regard to the delay in handing in vouchers and inclusive vouchers that frequently occurs at the end of a period, the Royal Commission on the Sugar Supply desires to make it known that, whilst recognising that a period of seven days' grace for making allotments is provided for under the Sugar Order (1917), it cannot in future recognise as valid any vouchers or inclusive vouchers that are presented to the refiners or to this Commission's agents after the last day of the period of validity stated on the vouchers. I am therefore to request that you will act accordingly, as from Period 3, 1920 (ending March 20).

It will be understood from the above that all vouchers must be lodged at latest on the last day of the period of validity.

Irish News.

Brevities.

The Chemists' Hall, occupied by Dr. John Gilbert, Ennis, has been sold to Mr. M. Kierse for 950*l.*

At Longford Quarter Sessions County Court recently, Judge Fleming awarded Mr. Samuel Wilson, J.P., Ph.C., Longford, 2*l.* 15*s.*, the full amount claimed against the Midland Great Western Railway Co., for empties lost in transit.

The Minister of Labour has appointed Professor R. M. Henry, Mr. L. E. P. Smith Gordon, and Miss C. E. Hamilton as members of the Aërated Waters Trade Board for Ireland. Professor Henry is to be chairman and Mr. R. R. Bowman secretary. Eleven representatives of the employers and eleven representatives of the employed have also been appointed, and provision is made for an additional number, not exceeding six, of these.

In the King's Bench Division, Dublin, on February 19, Mr. Justice Gibson, Mr. Justice Kenny, and Mr. Justice Moore made an order giving liberty to a plaintiff, a schoolboy named Leonard Campbell, residing in the County Louth, to add as defendant the Rev. James Moody, of The Manse, Dundalk, in an action brought by the plaintiff against Mr. James Neely, National School teacher, Dundalk, to recover damages for personal injuries sustained by him by reason of the alleged negligence and unskilfulness of Mr. Neely. The plaintiff alleged that during the course of a chemistry experiment an explosion took place and his eyes were injured. The Rev. Mr. Moody is manager of the school.

Belfast.

The North Irish Pharmacists' Association has arranged a lecture for March 10 on the subject of liquid paraffin.

An unknown man was found dead in a Belfast hotel, and at the inquest a verdict of death from cyanide of potassium poisoning was returned.

Saccharin, a correspondent informs us, is popularly held, in the south of London, to be productive of serious internal troubles. Apparently the tomato has gone out of fashion as a bogey.

Thomas Kerfoot & Co., Ltd., manufacturing chemists, Bardsley Vale, are able to show an unusual number of long-service records among their staff. One employé has been with the firm 44 years; nine have an average of 37½ years; forty-eight an average of 26 years; fifty-seven an average of 25 years; and sixty-seven an average of 23½ years.

Scottish News.

Brevities.

Assistants and apprentices are making a hobby of botanical gardens.

There are, it is rumoured, a few pharmacists who might increase their dispensing-charges with advantage to themselves and their *confrères*.

A Scottish teacher of pharmacy alleged the other day that a student, excusing himself for discovering two bases which were not present in his salt, remarked that the elements have been very boisterous lately.

The Ministry of Agriculture and Fisheries has made arrangements for 300 acres of flax to be grown in Fife. The artificial dryer installed at Walkerton (the first of the kind in this country) is working satisfactorily.

The Minister of Labour has appointed Professor J. B. Baillie, C.B.E., Professor D. H. Macgregor, and Miss M. G. Cowan, M.A., as members of the Aërated Waters Trade Board for Scotland. Professor Baillie is to be chairman and Mr. F. Popplewell secretary. Ten representatives of the employers and ten representatives of the employed have also been appointed, and provision is made for an additional number, not exceeding six, of these.

Dundee.

A lecture was given in the Technical College on February 19, by Dr. J. Stanley White, on vaccines and serums. The lecturer predicted another epidemic of influenza with pneumonia.

Local chemists have received, from the Dundee Burgh Insurance Committee, final payment for drugs and surgical appliances supplied to insured persons during the year ended December 31, 1918.

As foreshadowed in our issue of February 14, p. 51, a dissolution of partnership has taken place between Mr. Joseph Rosenzweig and Mr. Charles Duncan, who have been carrying on business, under the name of Charles Kerr, at 56 Nethergate. Mr. Charles Duncan continues the business, under the same name, as from February 2.

Glasgow.

Coutts & Furst are opening premises as chemists at Dumbarton Road, near Anderston Cross.

A local pharmacist who is advertising for an apprentice is offering wages on the Drug Union scale.

Work at the corporation willow-planting estate is going on well, but no salicin has been manufactured there up to the present!

A suggestion has been put forward that there should be an "evening university" in Glasgow, the laboratory classes being conducted at the Royal Technical College.

The Glasgow corporation is likely to approach Parliament concerning the "pay up or quit" notices which tenants of shops are receiving on quite a wholesale scale.

Claims against the estate of the late Mr. David Hendry, chemist and druggist, Renfrew, must be lodged with Wilson, Chalmers & Hendry, 40 St. Vincent Place, Glasgow, before March 3.

Judging from early reports, the Glasgow portion of this year's British Industries Fair, which is open from February 23 to March 5, is a pronounced success. Chemicals (fine and heavy), dyes, soaps, disinfectants, and many other products of interest to chemists are on view. The general public are admitted after two o'clock. On and after March 1 the closing-hour will be 9.30 p.m.

A letter in the "Evening News," signed "M. D." gives the following illustration of the cheeseparing policy animating the administration of the Insurance Act. "Vaseline is used as a basis for a number of ointments used in eye cases. Vaseline is cheap, yet it is not cheap enough for the 'Panel'; soft paraffin must be substituted. It costs a few paltry pence a pound less than vaseline. . . ."

The Profiteering Act.

Notes.

DEPUTATION OF PHARMACISTS TO MR. MCCURDY.

ON February 20 a joint deputation, consisting of Messrs. G. J. Knight and W. Johnston, Ph.C., from the Chemists' Defence Association, Ltd., and Messrs. F. Cherry, Ph.C., G. A. Mallinson and A. R. Melhuish, Ph.C., from the Local Associations Executive, waited on Mr. McCurdy, chairman of the Central Profiteering Committee and member of the Profiteering Act Amendments Committee. The deputation was introduced by Mr. P. F. Rowsell, a member of the Central Profiteering Committee. Mr. Johnston stated that, as secretary of the Chemists' Defence Association, it had been his duty to attend numerous hearings of complaints before Profiteering Committees. He had been greatly impressed by the hardships of many of the respondents. The amendments required, from the pharmacists' point of view, were :

(1) The fixing of current market prices as the guide to Committees and Tribunals; (2) the institution of local advisory committees to assist the local Profiteering Committees and Tribunals; (3) the adoption of some means of preventing, if possible, the laying of complaints without the complainant attending to support them; and (4) the exclusion of dispensing from the scope of the Act.

Mr. Johnston said that an arrangement similar to (2) worked well in administering the Insurance Act, but that, in any case, the deputation were not bound to that particular method and would welcome any good, working alternative that would ensure the ending of the present state of things. Profiteering Committees, as at present constituted, could not be expected to understand the intricacies of the sale of drugs, chemicals, etc. He gave examples of unfair decisions. With regard to (3), it was very hard on chemists to have complaints made about their charges, necessitating the taking of solicitors and witnesses for their defence before the Committees, and then to find, after waiting several hours, that the complainants did not attend to support their complaints. He suggested that such complainants should be made liable to pay the respondents' costs. With regard to (4), it was quite impossible for Committees to adjudicate upon a matter of which they know nothing. Mr. Mallinson explained that he had received (as secretary of the Executive Committee of the Local Associations Executive) a large number of requests in the direction indicated. The plan of demanding invoices, adopted by many of the Profiteering Committees, was quite unsuitable to the drug-trade. As many as four thousand different things were stocked; many of them were in small demand, and the stocks lasted so long that all trace of the invoices was lost.

Mr. McCurdy, in reply, said he was in favour of using the current wholesale rates as the standard. With regard to (2), he was afraid it would be clumsy and unworkable. He was entirely with the deputation that dispensing should be excluded from the operation of the Act, and thought that some arrangement should be devised to meet the difficulty outlined in (3). A discussion took place between Mr. McCurdy and members of the deputation with respect to a suggestion put to the deputation by Mr. McCurdy that there should be an agreed maximum scale of charges for the commoner articles sold by chemists, using the current wholesale prices as the basis. The number of such articles (which would include only things in every-day use) would be comparatively limited, and all other things sold by chemists would be outside the Act. The deputation expressed agreement, provided that the ratio of profit was fair. Mr. McCurdy said that he would do what he could when the right time came; but the Amendments Committee, with which he was more immediately connected, was that dealing with the wholesale aspects of the matter.

Appeals.

At the sitting of the London Profiteering Appeal Committee on February 20, an appeal was heard which had been lodged by Mr. J. S. Moore, chemist and druggist, Grange Road, Bermondsey, S.E. The appellant was brought before the local Committee for selling a small packet of bicarbonate of soda at 1½*d.* on January 3 (*C. & D.*, January 24, p. 50). The local Committee ordered a refund of ½*d.* and directed a prosecution. The grounds of appeal were that the packets were supplied to Mr. Moore for retailing at 1½*d.*, and he was unaware that he was doing wrong in selling at that price. The sale of such goods was very small, possibly one packet being sold in a fortnight. In future the packets would be sold at 1*d.* each. The local Committee reported that the packets were purchased at 9*s.* a gross. In answer to questions, the appellant said that his turnover was only 4*l.* to 5*l.* a week, while his rent was 60*l.* a year and the rates were 50*l.* He also conducted a postal business. A member of the Committee pointed out that chemists, for the convenience of the public, kept their shops open for long hours, and also on Sundays. The chairman said that the appeal would be dismissed, but suggested that the prosecution should not be proceeded with.

At the same sitting, Boots Cash Chemists (Southern), Ltd., appealed against a decision of the Hammersmith Profiteering Committee ordering them to refund 9½*d.* on a bottle of Christie's Chilblain Liniment and directing a prosecution (*C. & D.*, January 31, p. 69). Mr. A. Bramall appeared for the appellants; the local Committee was not represented. Mr. Bramall said that the liniment cost the appellants 1*s.* 4¼*d.*, and the gross profit made was 22½ per cent. The Chairman : Who did the appellants buy from? Mr. Bramall : From Boots Pure Drug Co., Ltd. Out of the gross profit has to come the expenses, such as wages, rent, and taxes. The Chairman : What do you say the net profit is? Mr. Bramall : I cannot tell you that; it would involve a very elaborate calculation to get at their expenses. He went on to say that the liniment was manufactured by Boots Pure Drug Co., Ltd. Some twenty years ago a number of retail shops belonging to Day's Pure Drug Co. were taken over by the appellant company. There was an arrangement between Boots Pure Drug Co. and the appellants that if, after stock was delivered, there was a rise in the price of an article, the amount of the rise would be debited to the latter. If, after goods were delivered, the price fell, the Southern company was given a credit note for the amount of the fall. The Chairman : Who fixes the rise in prices? Mr. Bramall : The Pure Drug Co., who are the manufacturers. When this sale was made the Southern company had actually been charged about 1*s.* 4*d.*, and had paid that amount. The present inquiry had nothing to do with the profit made by Boots Pure Drug Co., Ltd., although as a matter of fact last December they were losing on every bottle of liniment they sold to the Southern company. In their endeavours to keep prices down—and Boots have a reputation for keeping prices down—Boots Pure Drug Co. sold the liniment at a loss. They continued to sell at a loss in the hope that prices would go down. A Member of the Committee : You are simply selling agents for the Pure Drug Co.? Mr. Bramall : I could not accept that altogether. Are you tied that you must buy from the Pure Drug Co.?—I should think probably that that was true, although I do not know. Sir Jesse Boot is the managing director of both the Pure Drug Co. and the Southern company. The Chairman : I should like to see a copy of the arrangement which has been entered into between the two companies. Mr. E. S. Waring, chemist and druggist, a director of the company, gave evidence bearing out the statements made by Mr. Bramall. He added that monthly payments were made by the Southern company, when any surcharge or credit involved through the increase or fall in prices was settled. Mr. Bramall : Is it a solemn juggle or a real transaction? It is a real transaction. A Member : It is a book entry. Witness : No, the money actually passes. Each concern is a separate company with different shareholders. The Chairman : It is a somewhat uncommon way of trading in civilised countries?—It may be

uncommon, but there may be other companies doing the same. You also say that whether it is peculiar or not it is not to the disadvantage of the public?—I am sure it is not. Does not it give the manufacturer a big control as against the consumer?—I don't think so. It might, if the manufacturer was trying to get all he can from the consumer. It gives him control in the sense that he fixes the prices which the consumer must pay?—Yes, I agree. Mr. Percy Sparks, chemist and druggist, the London manager of Boots Pure Drug Co., Ltd., was asked what was the average rate of profit made by a retail chemist, and replied that it ranged from 10 per cent. to 30 per cent., while the average would be from 22½ per cent to 25 per cent. The Chairman: Would 15 per cent. gross profit be reasonable?—No. You would not do business at 15 per cent.?—No, it could not be done. Witness added that the Proprietary Articles Trade Association regarded 25 per cent. to 55 per cent. as being reasonable. Messrs. Boots were not members of the P.A.T.A. The chairman, in giving the decision of the Committee, said: This particular case relates to a very small matter, but has raised a question of general importance, and has given great difficulty by reason of the way in which it has been dealt with by the local Committee who first heard the proceedings, and secondly, in regard to the way in which the actual evidence, apart altogether from the able argument put forward by Mr. Bramall on behalf of the appellants, was presented here. The appellants refer to some arrangement or agreement which existed between them and the principal company as the result of which transactions between them were dealt with on certain lines to which reference has been made. Purchases were made by the appellants subject to a discount, and the important factor of the case is that the Drug Co. actually fixed from time to time the prices at which the subsidiary company should retail their goods to the consumer. In regard to that part of the case the Tribunal consider that it is a matter of importance to the public, and, realising that it is not a matter which they themselves have any jurisdiction to deal with, it is a subject which should and will be brought to the attention of the Board of Trade in order that they may examine the circumstances more thoroughly than we have been able to do here, and if they think fit take the matter into such consideration as they may deem advisable under all the circumstances. The chairman expressed regret at the absence of a representative of the local Committee, and went on to say that the facts in the case were peculiar, and their decision in the matter was not to be taken as a precedent in any other cases. The Appeal Committee had come to the conclusion, on the evidence presented to them by the appellants, that there was not sufficient evidence to justify them in giving a decision different from that of the local Committee. In the circumstances they were bound to say that the appeal would be dismissed. Mr. Bramall asked whether the Committee would express any opinion with regard to the prosecution suggested by the local Committee; but the chairman said he did not think it was advisable to make any further remark.

Complaints.

Chiswick.—At a recent sitting of the Profiteering Committee, the hearing of the case in which S. W. Harrison & Son, chemists, charged a fee of 3*d*. last Boxing Day on the sale of a protected proprietary article (*C. & D.*, January 24, p. 50) was concluded. The Committee ordered a refund of 3*d*., and directed a prosecution.

Hammersmith.—At a recent sitting of the Profiteering Committee, a complaint against Boots, Ltd., who were stated to have charged 2*s*. 6*d*. for a box of headache cachets at 228 Uxbridge Road, W. (*C. & D.*, January 31, p. 70), was dismissed.—At the same sitting, a complaint against a trader who was said to have charged 2*s*. for a pint of linseed oil and 3*s*. for a pint of turpentine was also dismissed.

Ludlow.—At the sitting of the Profiteering Committee on February 20, a complaint was heard against Mr. W. J. Brown, Ph.C., who was stated to have charged 3*d*. for twelve saccharin tablets (½ gr., 330). A refund of 1*d*. was ordered.

Maidstone.—At the sitting of the Profiteering Committee on February 24, Mr. F. J. Oliver, chemist and druggist, Bank Street, was the respondent in a complaint of alleged overcharge for cotton-wool. The complainant stated that on January 30 she purchased at Mr. Oliver's shop 6½ oz. of cotton-wool of inferior quality, for which she paid 2*s*. 4*d*., and that much better cotton-wool could be obtained elsewhere at 3*s*. 6*d*. per lb. Mr. H. J. Bracher, who represented Mr. Oliver, said it was quite impossible for his client to say whether or not this cotton-wool was sold in his shop on the day in question. He sold in the course of a day hundreds of small articles, and as he heard nothing about this matter until three weeks after the purchase it was impossible for him to say whether on a particular day he sold the article or not. The chairman asked the complainant whether she made a complaint at the time of the purchase, and she replied in the negative. Mr. Bracher then reminded the Committee that there was no definition in the Act as to what profiteering was. All the Act said was that the Committee must compare the present profit on an article with the pre-war profit on a similar article. Mr. Oliver sold only one kind of cotton-wool at his establishment, and the price paid by the complainant worked out at 5*s*. 9*d*. per lb. Mr. Oliver: No, 6*s*. per lb. Mr. Bracher: We will assume it is 6*s*. According to the invoice Mr. Oliver bought this cotton-wool in February 1918 in wholesale quantities at 2*s*. 9*d*. per lb. He (Mr. Bracher) took exception to the statement that the cotton-wool was of inferior quality. The only cotton-wool which Mr. Oliver stocked was marked "best quality," and was purchased of Maw, Son & Sons, Ltd., a company of the highest reputation. Mr. Bracher went on to say that the gross retail profit on the article was 54 per cent. In pre-war days it was bought wholesale at 1*s*. 5*d*. per lb., and the retail price was 5*s*. 4*d*. per lb., which was equal to 73½ per cent. profit. A Member: And only 6*s*. now? Mr. Bracher: Yes. A prosecution in connection with the sale of cotton-wool came before the North London Court within the last week, and it was held that the profit made to-day on the article was lower than that in pre-war times and the case was dismissed. He submitted that it would be unfair to take the 54 per cent. as Mr. Oliver's actual profit as a retailer, because he had to carry on his business now at very much greater cost than in pre-war days. For instance, the salary of a qualified assistant in pre-war days was 3*l*. 3*s*. a week, compared with 7*l*. 7*s*. at the present time. Mr. Oliver, giving evidence, said he had only one class of cotton-wool in his shop, and it was labelled "best quality." Mr. Bracher informed the Committee that the County of Kent Association of Pharmacists had written to the effect that 6*d*. per oz. for cotton-wool was a fair price to charge to-day. The Chairman asked Mr. Oliver whether he had his pre-war invoices with him. Mr. Oliver: I have not, but I could find some. The Committee deliberated in private for some time, and the chairman afterwards announced that they had decided that the complaint must be dismissed, as profiteering had not been proved.

Sheffield.—At a recent sitting of the Profiteering Committee, G. T. W. Newsholme, Ltd., High Street, were the respondents in a complaint of alleged overcharge for methylated spirit, which, it was stated, they had supplied at 2*s*. a pint. The complainants were not represented at the hearing, and for that reason the complaint was dismissed. Mr. Jackson, who appeared for the respondents (instructed by the Chemists' Defence Association, Ltd.), then made a statement on their behalf, explaining that a mistake had been made through the failure of an assistant to note a reduction in price, and that they were quite prepared to refund the difference to the complainants.

Westminster.—At the sitting of the Profiteering Committee on February 20, Roberts & Co., New Bond Street, W., were the respondents in a complaint concerning a charge of 7*s*. 6*d*. for Eupnine Vernade, formerly sold at 5*s*. The complaint was dismissed.

Wimbledon.—At the sitting of the Profiteering Committee on February 19, the hearing of the case in which

Mr. J. A. Thomas, chemist and druggist, Revelstoke Road, S.W., charged 1*s.* 7½*d.* for 100 saccharin tablets (*C. & D.*, January 5, p. 68) was concluded. It was understood that the Committee had, during the adjournment, communicated with the Board of Trade. The nature of the Board's reply was not stated, but the complaint was dismissed.

Prosecutions.

At Stratford, London, E., recently, John Binder, High Road, Ilford, was fined 2*l.*, with 1*l.* costs, for selling at 1*s.* 3*d.* a stick of shaving-soap costing him 6½*d.* (*C. & D.*, 1919, p. 1398).

At Tower Bridge Police Court, on February 21, Mr. Gill gave a considered judgment in the case in which Boots Cash Chemists (Southern), Ltd., were prosecuted, at the instance of the Bermondsey Profiteering Committee, for selling a bottle of Rogers' Nursery Hair Lotion at 1*s.*, a price "considered unreasonable" (*C. & D.*, February 21, p. 52). Mr. Gill said that the decision of the Committee seemed to be based on the assumption that the company bought at a time when the retail price was 7*d.* The actual price they never ascertained. It was clear that the bottle was not acquired by the company when the retail price was 7*d.* The retail price was fixed by the manufacturers, and retailers were bound to sell at that price. The profit on the sale was 2¾*d.*—a gross profit of 22½ per cent., which could not be deemed excessive. In these circumstances he must dismiss the summons. He awarded Messrs. Boots 20*l.* costs.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

CENTRAL CHEMICAL CO. (GLASGOW), LTD. (P.C.).—Capital, 6,000*l.* Objects: As indicated by the title. R.O.: 17 Oswald Street, City, Glasgow.

SYNTHETIC CASEIN CO., LTD. (P.C.).—Capital, 6,000*l.* Objects: To manufacture casein, synthetic casein, and by-products, etc., and to adopt an agreement with M. C. Evans. R.O.: 7 Watling Street, London, E.C.

A. C. PEARCE & CO. (LONDON), LTD. (P.C.).—Capital, 2,000*l.* Objects: To carry on the business of importers and exporters of chemicals and produce, etc. R.O.: Norfolk House, 7 Laurence Pountney Hill, London, E.C.

BARRY COFFEY, LTD. (P.C.).—Capital, 1,500*l.* Objects: To take over the business of a chemist and druggist carried on by B. Coffey at 26 Elm Grove, Southsea, as "Hoit & Co." The directors are B. Coffey, P. J. S. Hanly, and Clara Coffey.

GOUTRID, LTD. (P.C.).—Capital, 2,000*l.* Objects: To take over the business carried on by B. Brown as "Goutrid," to manufacture and deal in the speciality known as "Goutrid," to act as dentists, etc. R.O.: 220 Westminster Bridge Road, London, S.E.

HARROGATE TABLET CO., LTD. (P.C.).—Capital, 5,000*l.* Objects: To carry on the business of chemists, druggists, drysalters, etc. The first directors are: A. Mortimer, 9 Leeds Road, Harrogate; and W. S. Nelson, 25 West-End Avenue, Harrogate. R.O.: 9 Leeds Road, Harrogate.

OCTOPHOTOTYPE SYNDICATE, LTD. (P.C.).—Capital, 6,000*l.* Objects: To acquire from Z. Kann a patent and brevet d'invention called the "Octophototype" for the purpose of restoring the sight of blinded persons, etc. Solicitor: G. T. B. Thurnell, 93-4 Chancery Lane, London, W.C.

GLYNN CO., LTD. (P.C.).—Capital, 20,000*l.* Objects: To take over the business of wholesale and manufacturing chemists, dealers in fine chemicals, manufacturers of essential oils, etc., carried on by Albert Field, Arthur Field, and Albert R. Field at Halifax, Yorks, and elsewhere, as the "Glynn Co." R.O.: 44 North Parade, Halifax.

PERMOL PRODUCTS CO., LTD. (P.C.).—Capital, 1,000*l.* Objects: To acquire the business of manufacturers, importers and exporters of and dealers in toilet requisites, tooth pastes and powders, perfumes, and pharmaceutical and chemical products, and the trade-mark "Permol" in respect of a dentifrice, etc. R.O.: 7 Old Bailey, London, E.C.

BOOTS BRITISH FINE CHEMICALS, LTD. (P.C.).—Capital, 125,000*l.* Objects: To carry on the business of manufacturers of and dealers in fine, pharmaceutical, and photographic chemicals, synthetic perfume bases, galenicals, etc. First directors are: Sir Jesse Boot (permanent governing director) and John C. Boot. R.O.: 37 Station Street, Nottingham.

BESYET, LTD. (P.C.).—Capital, 100*l.* Objects: To carry on the business of pharmaceutical, manufacturing, and general chemists and druggists, etc. The first directors are: Sir Jesse Boot, Bart., St. Heliers, The Park, Nottingham, manufacturing chemist; and A. L. Milne, 7 Gedling Grove, Nottingham, secretary. R.O.: 37 Station Street, Nottingham.

RILEY'S CHEMICALS AND COLOURS, LTD. (P.C.).—Capital, 20,000*l.* Objects: To take over the business of a manufacturer of chemicals and colours carried on by J. Riley at Oakenshaw, Clayton-le-Moore, Lancs, and the purchase and sale, importation and exportation of chemicals, colours, and other substances. R.O.: Oakenshaw Chemical and Colour Works, Clayton-le-Moors.

CHEMICAL INDUSTRIES, LTD. (P.C.).—Capital, 15,000*l.* Objects: To carry on the business of manufacturers, importers, and exporters of and dealers in disinfectants, pharmaceutical, medicinal, chemical, and other preparations, oils, paints, varnishes, drugs, etc., and to enter into an agreement with J. H. Clark, F. G. Moore, and W. R. Nicholson. R.O.: 2 Coleman Street, London, E.C.

B. REDFORD, LTD. (P.C.).—Capital, 2,000*l.* Objects: To take over the business of a dispensing, manufacturing, wholesale, and retail chemist and druggist carried on by B. Rechler (formerly B. Redford) at 9 Progress Buildings, Cheetham Hill Road, Manchester, as "Bernard Redford." The first directors are: B. Rechler and Bella Redford, Norwood, 240 Plymouth Grove, Chorlton-on-Medlock, Manchester. R.O.: 9 Progress Buildings, Cheetham Hill Road, Manchester.

BANDOENG QUININE FACTORY.—The directors have declared an interim dividend of 50 per cent.

COLOMBO PHARMACY CO., LTD.—The directors recommend a dividend of 12 per cent. and a bonus of 5 per cent., which will absorb Rs. 12,750, leaving a balance of Rs. 4,165.68 to be carried forward.

COMPANY WHICH MAY BE WOUND UP.—Three months from February 17 the name of U.K. Chemical Products, Ltd., will, unless cause is shown to the contrary, be struck off the Register, and the company will be dissolved.

A. MILLAR & CO., LTD.—The directors' report for the year ended November 30, 1919, states that after making due provision for bad debts, depreciation, machinery, etc., directors' fees, and excess-profit duty, the net profit, including the balance of 4,204*l.* 19*s.* 7*d.* brought forward from last year, amounts to 49.764*l.* 17*s.* 1*d.* An interim dividend at the rate of 5 per cent. per annum on the preference and at the rate of 6 per cent. per annum on the ordinary shares was paid last July, amounting (less income-tax) to 2,625*l.*, leaving a balance of 47,139*l.* 17*s.* 1*d.* A final dividend on the preference shares of 5 per cent., less income-tax, 1,050*l.*, was paid in January last. There remains a sum of 46,089*l.* 17*s.* 1*d.*, out of which the directors recommend the payment of a final dividend (less income-tax) on the ordinary shares of 15 per cent. per annum, and a bonus of 5*s.* per share, 10,500*l.*; to be added to reserve fund (bringing this account up to 40,000*l.*), 15,000*l.*; benevolent fund, 5,000*l.*; building fund, 7,500*l.*; to be carried forward to next account, 8,089*l.* 17*s.* 1*d.*; making a total of 46,089*l.* 17*s.* 1*d.* Mr. R. N. Millar and Mr. H. J. Millar retire from the board by rotation, but, being eligible, offer themselves for re-election.

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Legal Reports.

Libel Case.—In the King's Bench Division, Dublin, on February 12, an application was made on behalf of Dr. William John McElhinney, L.P.S.I, Marlborough House, Morehampton Road, Dublin, against Mr. James Quin, B.A., 44 Grove Park, Rathmines, Dublin, for discovery of documents. Mr. Hubert Hamilton, B.L., who applied on behalf of the plaintiff, said the action was brought to recover damages for libel against the defendant, who wrote most scandalous letters to a number of doctors and other persons in Dublin about the plaintiff, stating that the latter had got someone to impersonate him at one of his examinations, and that there was therefore a flaw in his diplomas, and that he had been swindling. The defence pleaded by the defendant, appearing in person, purported to justify the writing of the letters complained of, and stated that they were written without malice; and it referred to an alleged agreement, a copy of which the plaintiff had not got. Mr. Justice Moore made an order for discovery.

A Partnership Dispute.—Mr. Justice Sargant, in the Chancery Division on February 24, had before him an action in which Richard James Milton, Milford, Surrey, claimed a declaration that the business known as "The Burlington Stores," Witley, was part of the assets of a partnership between him and the late John Wm. Turner, of the "Ivy Lodge Pharmacy," Milford. It was stated that plaintiff and Turner were partners in a drug business carried on at that address, and that "The Burlington Stores" was a shop at Witley Camp which was bought by Turner with money borrowed from the plaintiff and another man. This shop was raided at the time that the Canadians destroyed the camp, and they either stole or destroyed most of the contents. The plaintiff claimed that he was to receive 25 per cent. of the net profits of the business, but the defendants, who were the widow of Mr. Turner and a relative, said that he was entitled to nothing more than interest on the loan. It was agreed, after the case had lasted several hours, that the defendants should pay to the plaintiff 375*l.* in satisfaction of all claims on the Witley Camp shop, and there would be no order as to costs.

A Saffron Deal.—In the City of London Court on February 19, MacManus Bros., Ltd., 28 and 29 St. Swithin's Lane, sued Mr. H. Carter, broker, 9 Mincing Lane, E.C., for 48*l.* 15*s.* for 13 lb. of saffron supplied to him at 75*s.* per lb. Mr. Clements, plaintiffs' counsel, stated that early in November defendant called and said he could sell some saffron. Plaintiffs gave him a sample, and said that the price was 75*s.* per lb. Defendant said he could sell 13 lb. of the saffron to Green & Co., 120 Jamaica Street, and the goods were handed to him, he being told that the cheque must be made payable to the plaintiffs, who would give the defendant a commission of 5 per cent. on the selling value No invoice was sent at first, but afterwards one was sent to the defendant in the name of Green & Co. It now turned out that there was no Green & Co. Defendant had suggested that there was no commercial value in the saffron, but there was no justification in that contention. It was sold by sample. Mr. MacManus having given evidence in support of the statement, as the defendant did not appear judgment was given for the plaintiffs, with costs.

Carbolic Acid Leakages.—In the City of London Court on February 24, Mrs. Isabella E. Beckett, 1 Addison Place, Brixton, made a claim against Shaw, Savill & Albion Co., Ltd., 34 Leadenhall Street, E.C., for 15*l.* 19*s.* 6*d.* as damages for negligence. Plaintiff said she travelled in the R.M.S. *Athenic*, of which the defendants are the owners, from New Zealand to Tilbury between September 23 and November 16, 1919, and occupied cabin No. 7 third class. Owing to the defective receiver (used for sanitary purposes) carbolic acid which had been periodically poured therein leaked from the receiver and destroyed a suit-case and its contents, consisting of plaintiff's underclothing, etc. The carbolic acid had eaten into the pipe down which it was poured. Mr. Pritt, for defendants, said that in fact the receiver never leaked at all. The damage, if any, was caused by plaintiff's own fault in the untidy way in which she behaved in the cabin. Furthermore, there was a condition on the plaintiff's ticket exempting the company from responsibility for loss of or damage to baggage. Judge Atherley-Jones, K.C., found for the plaintiff for 10*l.* and costs, and said that the defendants' liability was limited under the contract to that sum.

Venereal Disease Act, 1917.—In the High Court of Justiciary, Glasgow, on February 24, before Lord Salvesen, Abraham States Eastburn was charged, on twelve counts, with having contravened the Venereal Disease Act, 1917. Preliminary objection was taken by Mr. John Wilson, K.C., who defended, to six of the counts, which had reference to "offering to treat," and Lord Salvesen held that willingness to commit a contravention of the Act did not constitute a contravention. There was nothing in the Act which made it illegal for an unqualified medical practitioner to examine a person who tendered himself for examination and to tell him what was wrong with him. His Lordship sustained the objections. A plea of "Not guilty" was tendered on behalf of the accused. Evidence was led by several men who had undergone treatment by the accused. In one case it was stated by a witness that five or six years ago he had paid the accused between 40*l.* and 50*l.* for treatment. In September of last year he went back to Eastburn because he was feeling run down. The accused told him the medicine was very expensive, and that the treatment would cost witness 265*l.* That sum was paid in full on September 17. He believed the accused was a real "professor." Among other witnesses were Professor Glaister and Dr. John Anderson, who submitted a report in connection with the case. The hearing of the evidence lasted for fully six hours. The jury returned a unanimous verdict of "Guilty" against the accused on three of the counts, found him guilty by a majority on one count, and by a majority in the other two counts their verdict was "Not proven." Lord Salvesen, in passing sentence, said it was obvious that the accused had for profit contravened the Act, well knowing what its provisions were and that it was applicable to him. As he (his Lordship) read the Act, the option of a fine had not been committed to the High Court, in which he was sitting, although, oddly enough, it had been given to a Summary Court of Jurisdiction. He felt that he could not make the sentence of imprisonment less than one of six months.

Salicylic Acid in Wine.—At Mortlake Police Court on February 18, Harry Bailey, grocer, Barnes, was summoned under the Sale of Food and Drugs Acts for selling raisin wine not of the nature, substance, and quality demanded, in that it contained 10½ grains of salicylic acid per pint (*C. & D.*, February 21, p. 47). Mr. Thomas, for the Surrey County Council, said a sample of raisin wine purchased by the inspector under the Sale of Food and Drugs Acts was analysed and found to contain salicylic acid, a dangerous drug which is included in the British Pharmacopœia. Salicylic acid reduces the frequency of the heart and pulse and has a strong depressing effect on the kidneys. It should only be used under medical advice. The amount in a wineglassful of the sample of raisin wine would be about 1 grain. The use of the acid as a preservative is not prohibited, and there is no standard laid down as to the exact amount that manufacturers may use. It is for the Bench to fix the standard. The Departmental Committee on Preservatives in 1901 recommended a limit of 1 grain per pint. Seven grains per pint was ample to preserve raisin wine. The wine was stated to be non-alcoholic, but there was no mention on the label of the fact that the wine contained a preservative. The analyst's certificate stated that 9 grains per pint is the extreme limit of the amount of salicylic acid that should be present in non-alcoholic raisin wine. Mr. T. W. Glass, B.Sc., giving evidence in support of the certificate, said he was not aware that a case had been dismissed in which 13 grains of salicylic acid per pint had been used as a preservative. Mr. C. H. Mitchell,

M.A., said it was possible to produce a non-alcoholic wine without a preservative, but not commercially. The limit of the amount of salicylic acid should be 7 grains per pint, and the quantity used should be mentioned on the label. He did not consider that the expression "non-alcoholic" conveyed to the purchaser that there is a preservative present. He had been engaged in a case in which there was a conviction for using 5 grains of salicylic acid to the pint. Dr. John Eyre gave evidence from a medical point of view. Mr. Dale, for the defence, pointed out that the prosecution was not under Section 3 of the Sale of Food and Drugs Act, which dealt with adulteration injurious to health. There was in Section 6 no suggestion that a preservative was injurious to health. Where a suggestion that the use of salicylic acid was injurious to health had been made, in a case at Liverpool, it had been dismissed, although 13 grains of salicylic acid per pint was present. Nowadays prosecutions are brought under Section 6, and he read a judgment in which it had been held that a preservative should be taken as part of the ingredients of the article demanded. He also dealt with the fact that while the Local Government Board had adopted the recommendations of the Departmental Committee in respect to other preservatives, they had not adopted that relating to salicylic acid, and there was no limit laid down as to the extent of its use. He referred to a case in which so much as 30 grains per pint had been used, and said he would like the Bench to say to what extent they considered it might be used. Mr. H. T. Gould, of H. Gould, Ltd., said his company made both alcoholic and non-alcoholic wines. An essence was used for making the raisin wine. It is necessary to use a preservative, or the contents would go bad. The liquid was not pasteurised. The Bench retired, and on their return the chairman said they had very carefully considered the question so well argued by the representatives of both parties, and came to the conclusion that the article sold was not of the nature, substance, and quality demanded. Therefore they fined the defendant 10*l.*, with 10*l.* 10*s.* costs.

Sale of Kieselguhr.—In the Lord Mayor's Court before Sir Forrest Fulton, K.C., last week, a claim was made by A. D. Chester & Co., Ltd., chemical manufacturers and merchants, Idol Lane, London, E.C., against Henry Miller & Co., gum and chemical merchants, Trinity Chambers, Trinity Square, E.C., for the sum of 97*l.* 6*s.* 4*d.*, the price of kieselguhr sold and delivered. Mr. P. R. Simner, counsel for the plaintiffs, said that the dispute arose over a deal in a parcel of kieselguhr, a material used for tooth paste and powder, and also for boiler-casing. In the defence set up it was alleged that the plaintiffs failed to deliver eleven tons of the material, and in consequence the defendants sustained damage. A counterclaim was raised for the difference between the contract price of 2*l.* 10*s.* per ton and the market price of 9*l.* per ton on eleven tons not delivered, and the defendants, after deducting such amount, had paid a sum of 25*l.* 6*s.* 7*d.* into court in satisfaction of the claim. It appeared that the plaintiffs had a parcel of 150 tons of kieselguhr lying at Griffiths Wharf, North Woolwich. A substantial part had been sold, and then a fire occurred at the wharf, the material in question being damaged by water. In March last year negotiations were opened with the defendants for the sale of the material, they being informed that if they were interested in the parcel there was about 50 to 60 tons, and the price asked was 4*l.* per ton. The defendants offered 3*l.* per ton provided plaintiffs guaranteed that the kieselguhr contained not more than 30 per cent moisture. The plaintiffs accepted the offer subject to the defendants taking the whole parcel without any guarantee as to moisture. On May 20, after a telephone conversation, a contract was entered into for the sale of about 50 or 60 tons of kieselguhr at 2*l.* 10*s.* per ton. In June plaintiffs received from the wharfingers a note requesting them to remove the goods. Defendants were communicated with, and they then asked to be supplied with a delivery order, when they would make arrangements to remove the kieselguhr. Deliveries were made, and, upon information received from the wharfingers, plaintiffs were enabled to send an invoice to the defendants for the quantity delivered, for the price of which the present proceedings were brought. Upon receipt of the invoice defendants wrote stating that the amount charged was noted by them, that the contract was for 50 or 60 tons, and that they would be pleased to settle the account when the contract as to quantity was completed. Mr. Arthur David Chester, managing director of the plaintiff company, said that they dealt in various sorts of chemical material. The kieselguhr which they sold to the defendant was a fossilised shell material of a mineral nature. Of the 150 tons that they had had at the wharf, they had drawn upon from time to time for their customers. At the time of entering into the contract with the defendants there should have been 50 tons at the wharf. The contract definitely provided for the removal of the material within thirty days. The defendants did not clear the parcel until July 9. Until it had been cleared and the amount ascertained, the invoice could not be sent in for the total price. The account had been sent in to the defendants, but was not paid. The defendant, Mr. Henry Miller, trading as H. Miller & Co., said he traded in gum, chemicals, etc. The contract entered into with the plaintiffs on May 20 was for 50 or 60 tons of damaged kieselguhr. So soon as the delivery order was received the material was drawn upon and removed as quickly as possible. On July 9, 38 tons 18 cwt. 2 qrs. had been drawn, and the plaintiffs said they were unable to deliver the difference between the 38 odd tons and 50 tons. In June and July 1919 the market price of the stuff was between 11*l.* and 13*l.* per ton. In those proceedings he was counterclaiming the difference, on the amount undelivered, between the contract price and the price of 9*l.* per ton. Mr. F. E. S. Davies, of Gwynne, Faithful & Co., Mark Lane, E.C., called for the defendants, said the market price of damp kieselguhr in June and July 1919, 40 per cent. to 50 per cent. moisture, was about 11*l.* per ton. Mr. H. A. Irlam, technical director of Fuerst Bros., Ltd., chemical merchants, 17 Philpot Lane, E.C., said he had quotations for damp kieselguhr in June 1919 at 12*l.* per ton. The Recorder, in his judgment, said upon his construction of the contract the plaintiffs were to deliver not less than 50 tons, and the defendants were bound to accept not more than 60 tons. There was a failure to deliver a considerable quantity. There would be judgment for the plaintiffs on the claim for 97*l.* 6*s.* 4*d.*, and for the defendants on the counterclaim for 45*l.* The costs would be settled on taxation.

Business Changes.

Marsden & Kay, wholesale druggists, 7 Anchor Court, Preston, have removed to Margaret Street Mills, North Road.

Mr. G. McDiarmid, chemist and druggist, Mosley Street, Blackburn, has purchased and fitted out premises adjoining his pharmacy. [Corrected notice.]

Boots, Ltd., have purchased the business of the late Mr. E. W. Harris, chemist and druggist, 128 High Street, Merthyr Tydfil, which was established in 1876. An adjoining block of property has been acquired by Messrs. Boots, and extensive alterations to the business are contemplated.

The business of Vince & Co., chemists, 16 Cheapside, Lancaster, has been purchased by Mr. Robertson, who till recently was on the representative staff of Parke, Davis & Co., Beak Street, London, W. 1. Mr. J. Vince, chemist and druggist, has retired from business owing to ill-health.

Chas. Midgley, Ltd., 4 Exchange Street, Manchester, announce that their wholesale and manufacturing departments have been amalgamated with Geo. Holliday & Co., Ltd., at 325 City Road, Manchester, which will be the address, after March 1, of the wholesale side of the business. These particulars are given in a two-page advertisement in this issue.

British Industries Fair.

Crystal Palace, February 23—March 5.

On its erection in Hyde Park in 1851 the Crystal Palace was the home of the first International Exhibition; it now becomes, sixty-nine years later, the framework, none too large, of an exhibition of British products of industry. The contrast is significant. Writing in the third volume of The Chemist and Druggist, Mr. C. W. Quin, F.C.S., recorded that the total number of exhibitors of "chemical and pharmaceutical products" at the Exhibition of 1851 was 270, of whom half were British; and he went on to give a description of certain exhibits. A few sentences are of interest:

The collection of the cinchona alkaloids and their salts by Messrs. Howard & Kent was very fine. Messrs. Huskissons exhibited a collection of the principal salts used in pharmacy. Messrs. Morson contributed several vegetable alkaloids and their salts, and Messrs. Bullock some fine specimens of iron and ammonia salts.

Practical rather than spectacular, the present Exhibition is less concerned with fine specimens than its dignified predecessor. Those who visit it will find, indeed, that it is not so much distinguished by a high percentage of novelties as by evidence of the way in which manufacturers, in spite of great difficulties, have been able to return to something like a normal output. A word of praise should be given, in passing, to the catalogue, a compendious volume of 611 pages containing classified and alphabetical lists of the exhibitors and a plan of the stalls. We have selected for comment exhibits that are of interest to the drug-trade.

Drugs and Fine Chemicals.

Stafford Allen & Sons, Ltd., typically British in the soundness of their selection, have some fine samples of orris oil, anethol, eugenol, and citrol. They are also showing scale preparations drawn from those of several Pharmacopœias. The company, as everyone in the drug-trade knows, grow most of the official herbs and roots, and these are well represented in specimens of "museum" excellence which indicate that this country is on the way to becoming self-supporting in indigenous drugs.

The stand of Boots Pure Drug Co., Ltd., is suggestive of the stimulus given to the fine-chemical industry by the imperative demands of the war. Saccharin occupies a conspicuous place among the showcases, and near by are instructively grouped various intermediates illustrating its synthesis. The unpacking process was hardly complete when we arrived at the stand, but it was evident that an up-to-date display had been prepared.

Burroughs Wellcome & Co. have a distinctive exhibit covering, as usual, a wide range of investigation, and attractive to the visitor by its happy effect of unstudied originality—*ars est celare artem*. A dazzling pyramid of sodium salicylate is one of its many effective points. The firm are justly proud of their record in first-aid equipments, and topical photgraphs of famous aviators and their "tabloid" outfits are naturally in evidence. Returning to earth, we were attracted by the elegant appearance of some capsules of calcium ricinoleate, which solve a very old problem. A simple but ingenious comparison of liquid paraffin of different viscosities is another feature of this individual display.

Evans Sons Lescher & Webb, Ltd., have a stand devoted to a usefully topical selection from their wide range of products. Liverpool Virus—printed "Vines" in the catalogue, which, as a whole, is fairly free from misprints—occupies a prominent position, and vaccines of several kinds form an instructive display. A handsome specimen of sandalwood, lime-juice in three stages of preparation, and counter adjuncts are other features that strike the eye of the visitor. A clever new advertisement of Hawley's "I. K." should not be overlooked.

Holt, Thompson & Co., Ltd., have a small but well-arranged stand on which they are displaying salicylates, hexamine, citric acid, and iron and ammonium citrate.

Johnson & Sons (Manufacturing Chemists), Ltd., appear to have brought the practice of photography, on its chemical side, as near perfection as is necessary. Their stand, indeed, includes chemicals not exclusively associated with photography; but it makes its appeal primarily on photographic grounds. We were chiefly impressed by a series of "kinecolors," dyes for cinematograph films; an interesting specimen card showing results obtained with these is on view. What time the charlady was sweeping, "about it and about," we noticed a mysterious centrepiece something like a ship's compass in structure; in due course, when the dust had subsided, a cover was raised, and we found ourselves looking into a sort of crater of silver nitrate, probably more than 2 feet in diameter. It is a memorable exhibit.

The exhibit of William Ransom & Son, Ltd., is impressive in its massing of large glass jars of galenicals, the monetary value of which must be considerable. Tinctures of impeccable brilliance flank the solid extracts, and alkaloids are shown in much greater bulk than the average pharmacist usually sees them. We were specially attracted by the specimens of leaves—belladonna, hyoscyamus, and others—looking almost as green as if freshly gathered.

Pharmaceutical Products and Proprietaries.

Allen & Hanburys, Ltd., have a cleverly grouped series of showcases exhibiting well-known proprietaries and some of their latest products which are not so well known. Among the latter are several colloids ("Ultroid" brand), including Argein—a name sufficiently suggestive of its composition. We did not count the trays of throat pastilles temptingly displayed—under glass—but it was evident that most, if not all, of the eighty-one varieties mentioned in the catalogue were present.

John Bell & Croyden, Ltd., epitomise in a relatively small selection of samples the elegance and finish of their products. Sterilised dressings in hermetically sealed tins of many sizes make an imposing corner display, and packets of ingredients for Nauheim baths are also in evidence. A feature that specially attracted our attention was a collection of ampoule-cases hanging on one of the walls of the stand. No two of these, apparently, were alike, the object being to provide for the wishes of any customer who may desire a special shape of ampoule for sale in his pharmacy. The advantages of this are obvious.

F. C. Calvert & Co. show a large and, so far as we could see, complete range of their well-known carbolic and other preparations. It is worth recording that the strengths and styles of their soaps are varied for different climates—a fact that will be impressed, no doubt, on the buyer from abroad.

J. C. Eno, Ltd., have planned and carried out one of the most original stands in the Fair. The exterior is built up of trellis-work, with grapes and vine-leaves interwined, while the interior recalls (appropriately) the lounge of a fashionable health resort. The display of the well-known Fruit Salt is ingeniously unobtrusive, and our brief visit left us convinced that much thought is being given to the advertising of what the world knows as "Eno" *tout court*. The booklets that were given us show, in fact, distinctive touches of a quite unusual order.

Genatosan, Ltd., have an attractive stand displaying their well-known preparations. The stand is between the Crystal Fountain and the refreshment-room—obviously the most fitting position!

Harold E. Matthews & Co. have a corner stand devoted to a striking display of Nostroline, the cartons of which make a welcome patch of colour against the white background of the surrounding stands.

Milton Manufacturing Co., Ltd., display and expound Milton at their capacious stand. During the Fair, the Palace is "Miltonised" daily—a fairly large undertaking. We were not surprised to learn, in the course of a brief chat, that Milton is "booming."

E. T. Pearson & Co., Ltd., are displaying Lactagol, a food which is being extensively employed in hospitals, clinics, and infant-welfare centres.

Our call at the stand of The Standard Tablet Co., Ltd., left us admiring the ingenuity of the company's devices for saving the time of their customers. Something of the nature of a fine art is evident in the way in which

acked goods have been varied to meet the wishes of a ient or the needs of a locality. Cartoned bottles of ills, bottles with aluminium tops, and "own-name" ilet preparations in almost endless variety are shown indicated in this varied display. Mention should also e made of "Solvellæ" for antiseptic solutions, and Oculoids" for the painless application of medicaments the eye; and we must not overlook the convenient sizes f popular remedies in compressed-tablet form.

Glassware and Scientific Instruments.

GENERAL SURGICAL CO., LTD., are showing all kinds of rgical, medical, bacteriological, and chemical glassware. Their hypodermic and serum syringes are well made, and he transfusion syringe is of interest.

W. GOWLLAND (1916), LTD., who claim to be the largest anufacturers of unedged lenses in this country, have a ood selection of ophthalmoscopes. They are also show- ng ear, nose, and throat instruments, and tongue- epressors.

HYPOSOL, LTD., are showing ampoules in neutral and in ead glass, nasal douches, and atomisers. Their hypo- ermic syringes with standardised needles are also a rominent feature of a tasteful display.

Mr. F. F. MARSHALL has a small stand, but its contents re varied. The food and bath thermometers, which fit nto ordinary metal clinical cases, are worthy of note. A ath thermometer in an aluminium case with a wooden andle is quite a good idea, now that boxwood cases are scarce.

PERKEN, SON & CO., LTD., have adopted the wise plan f placing in the forefront of their display two huge undles of clinical thermometers, as a silent reminder hat they are prepared to execute orders without the delay hat chemists have, in recent months, experienced to their ost. The company's stock of boxwood room thermo- ieters is also adequate to normal requirements. Indus- rial thermometers and gauges are other features of an xcellent exhibit.

RAPHAEL'S, LTD., have a display of test cases, optical nstruments, and charts. The Maddox near-vision phoro- heter is a well-designed instrument for measuring any xisting muscular imbalance.

THE SERVICE OPTICAL SUPPLY CO., LTD., have a good isplay of "Oriel" lenses, and their stand is worth a isit even if one is not an optician.

J. & H. TAYLOR (LONDON), LTD., have recently brought ut a new patent tortoiseshell spectacle-frame with a old cap and screw joint so that it is not necessary to eat the frame to insert the lens. Their No. 325 gold rame is exceedingly light, and should be of interest. The ompany are able to supply rimless glasses with any kind f fitting.

THERMOS, LTD., have a capital display of their flasks n a great variety of coverings—we had almost written bindings," so attractive are some of the cases. Scien- ific glassware, such as vessels for liquid air, is also hown by the company.

W. WATSON & SONS, LTD., are supplying a student's nicroscope which may be inspected at their stand. It is nade according to the specifications of the British Science Guild, and is being produced in quantities for competi- ion. The Watson-Denne microtone, which cuts riband ections from 1 to 20 microtones in thickness with a ravel of 35 millimetres, is also on view.

Among other manufacturers showing in this section are THE BRITISH OCENTRIC OPTICAL CO., LTD., F. DARTON & Co., JULES LANG & SON, SCIENTIFIC SUPPLIES CO., LTD., STANDLEY, BELCHER & MASON, F. H. TAYLOR & SONS, TUNSTALL OPTICAL CO., LTD., WILLMOTTS, LTD., and WOOD BROTHERS GLASS CO., LTD.

Toilet Preparations and Requisites.

ANGLODOL, LTD., make, as is fitting, a leading feature f British Odol and its derivatives, which include shaving- ticks, tooth-brushes, and a whole battery of dressing- able requisites. The exhibit should not be missed by hemists seeking attractive toilet preparations.

THE BALDWIN MANUFACTURING CO., LTD., have a taking assortment of toilet specialities, backed by some equally striking showcards, one especially attracting the visitor's attention by the brilliant colouring of a lady's feather in contrast with that of her *coiffure*. There are other marvels in this showcard, which is an artistic pro- duction. Returning to the goods (P.A.T.A. lines, we noticed), there is a series of beauty adjuncts moderately priced and backed by testimonials from users well qualified to judge of their merits.

BARNETT'S PERFUMERY, LTD., make a feature of their "Phaon" series, and show a well-assorted variety of face-creams, massage-creams, brilliantines, and other toilet articles.

THOMAS CHRISTY & CO. have a display of all their well-known preparations, and also a new series of toilet requisites "Le Tricolor," which are neatly packed. "Quin Quenna" shampoo-powders and Zepto sticks are, we learn, selling well. They have recently brought out an "own design" series of tooth-pastes which should be of interest to pharmacists.

The exhibit of DUBARRY ET CIE. has an æsthetic dis- tinction that would have tempted us to prolong our visit unduly, had we not noticed that other visitors had already fallen into this venial error. From the point of view of the window-dresser (to mention only one point) it is worth careful study. Of course, the same goods would be needed to produce the same effects—and very striking effects they are. Among the several items displayed we noticed a new spray of the pedestal variety; "own name," packed goods (there are fourteen tooth-pastes put up in this way by the company); and nail-stones in dainty wrappers. The whole range of Messrs. Dubarry's per- fumes, bath crystals, soaps, and so forth, can now be supplied from stock.

EUCRYL, LTD., have a fine display of their toilet re- quisites and disinfectants. "Eucryl" tooth-powder, tooth-paste, shampoo-powder, and all the company's pre- parations are manufactured under strictly hygienic conditions.

THE GENERAL CHEMICAL AND PHARMACEUTICAL CO., LTD., make a feature of the "Oasis" series of toilet prepara- tions, and also call the visitor's attention to the packing, the gold-and-blue design of which is quite distinctive. Resistance to extremes of temperature and other condi- tions has also been studied, and this point should attract export buyers.

JOHN GOSNELL & CO., LTD., show a series of their pro- ducts in packings of black-and-gold and heliotrope-and- gold. Severely smart (if the phrase may pass), these toilet specialities possess an undeniable distinction.

ORELA, LTD., have a varied display of toilet requisites. The packing of their face-powders and similar lines is very attractive, there is a good assortment of brilliantines (solid and liquid), and creams (greasy and non-greasy). Among their recent additions is a scurf tonic.

THE PALMOLIVE CO., LTD., have an effective display, in which prominence is given to their lavender bath-soap, vanishing cream, shaving-cream, and liquid shampoo.

THE POWDER-PAPER MANUFACTURING CO. have some dainty lines in puff handkerchiefs, which are worth the attention of retailers (and wholesalers) who ask for some- thing distinctive. Mirrors and other toilet adjuncts com- plete an attractive stand.

MR. R. J. REUTER has a good selection of manicure sets. The vanity bag sets in moiré silk with fittings of ordinary or stainless steel are worthy of note, as also are the sponge bags and puffs. The beaver-skin puffs in chocolate-coloured silk are a particularly good line. Anyone interested in atomisers should inspect the "Ariston" cloudizer for paraffin solutions.

ROBARTES, LTD., have a "Diadem" series of toilet preparations which is very attractive. The mauve-and- black design should make them an easy seller. We learn that the company are doing a large export business.

C. A. STOKES & CO., LTD., have a wide range of toilet preparations, the Lustressa series and transparent label series being well to the fore. Velvola Cream is a neatly packed line worth consideration. The company is building new works, we learn, at 34 Lower Castle Street, Bristol.

The Western Dental Manufacturing Co., Ltd., have a display that at once strikes the visitor as an *actualité*. Not only is the grouping of the exhibits individual, but samples of Sotol dental cream are being filled for presentation. A Rilette window-show, with its half-filled tumblers, occupies one of the walls, and orange-and-black boxes of Sotol tooth-powder create a subtle impression of perfect finish. We had not previously seen the Phryn-a-zol nasal irrigator, which can be used by gravitational force without throwing back the head; it strikes us as a very convenient appliance. Chemists who practise dentistry may be reminded that the company supplies the whole equipment necessary.

Toilet Specialities are also shown by Carmichael Soap and Perfumery Co., Ltd., Carlotta Destino, Lemaire & Barclay, Ltd., Watts Bros. (Manchester), Ltd., and Willis, Low & Druiff, Ltd.

Miscellaneous.

The Aberdeen Combworks Co., Ltd., are exhibiting combs which, to say the least, are fully equal to those that we used complacently to import from "Weissnichtwo." Their scoops, spoons, and spatulas are also well worth attention.

Henry Allnutt & Sons display a comprehensive range of filter, wrapping, and other papers. A sample of "ashless" filter-paper, about 4 inches in diameter, attracted our attention; each circle is certified to contain only 0.0002 gram of ash. This is one example of the care with which the specifications of each class of paper have been studied by this firm.

Mr. Percy P. Baker has a neat display of camel-hair pencils, mops, throat-brushes, etc., a special feature of the last-named being their freedom from dye—an important consideration for the prescriber, the patient, and (may it be added?) the humble necessary pharmacist.

The Berkefeld Filter Co. are exhibiting all the different patterns of filters previously made by the German company, but now of entirely British manufacture and British owned. They particularly call attention to their "H" and "F" types as being suitable for chemists.

The British Ever-Ready Co., Ltd., have a wide range of pocket-lamps, torches, and hand-lamps. Medical coils, which are in great demand, will be ready for delivery shortly.

W. Butcher & Sons, Ltd., have an imposing display of almost everything that the photographer, amateur or professional, wants. Whether the cinematograph industry should be considered a branch of photography or not, one realises, in looking round a stand of this kind, what a big affair it is. The company also show "Primus engineering," a toy for constructing a great many variations of bridge, crane, and so forth.

A. S. Cartwright, Ltd., have a good selection of seamless rubber teats for babies' soothers, and also all kinds of bottle-teats and valves. The display of washers and metal screw-tops should be of interest to wholesalers.

The Efandem Co., Ltd., have evidently made a study of the uses to which the electric flash-lamp can be put, and the cases now made for their batteries are of sufficient variety to please the most exacting user. Some new patterns are on view.

The exhibit of Houghtons, Ltd., is quite one of the best in the Fair. The Folding Reflex camera, for example, is as perfect a hand camera as anyone can reasonably desire; and the Ensign de Luxe is equally attractive on a different plane. Balancing printing-frames and "Safelight" red lamps are other interesting features of Messrs. Houghton's exhibit.

Hudson, Scott & Sons, Ltd., are showing some high-class metal containers, labels, wrappers, etc., for chemists and perfumers. The company will be pleased to give quotations.

Mr. F. Kingsley shows a series of chemistry outfits for beginners, neatly packed and worthy of attention as a side-line.

Lloyd, Hall & Provan, Ltd., have a useful range of bulk and packed goods, covering virtually the whole of an ordinary retail business and including veterinary remedies. The export trade is catered for by this enterprising company.

Not included in the catalogue, but none the less worthy of attention, is the stand of the National Physical Laboratory, at which information is obtainable concerning the testing and marking of clinical thermometers, burettes, and other apparatus.

H. C. Quelch & Co. have a fine show of manicure sets and ladies' "companions." The prices of the former range from 6*d*. to 21*l*. One manicure set in particular is worthy of attention—it is an exact replica of a Louis XVI. cabinet.

Sangers do justice to their reputation in a well-considered selection of packed goods, prominent among which are toilet preparations. Visitors in search of hints as to counter display may profitably study the arrangement of this stand.

Siemens Brothers & Co., Ltd., are showing a comprehensive selection of electric cells and batteries, of which for upwards of fifty years they have been among the leading makers. It is hardly necessary to add that practically every type of cell and battery is represented.

Sorbo Rubber-sponge Products, Ltd., have a display of rubber sponges and truss-pads. They also call attention to their rubber-sponge sheeting, which can be obtained in various thicknesses. The company are about to commence an extensive advertising campaign.

The Wilkinson Sword Co., Ld., have a stand at the opposite end to the clock. The firm's razors, now certified by long-established use as a standard of excellence, are on view. The 1920 model safety shaver should be inspected.

Mr. E. Woolf has a good supply of pneumatic soothers, and also an assortment of spare transparent teats and bone shields. The soothers are non-inflammable.

Other exhibitors whose stands are worth a visit are W. & R. Balston, Ltd. (filter papers), Mr. W. Booth (shaving-brushes), The Durolite Mfg. Co., Ltd. (glass signs), Eley Bros., Ltd. (dentifrice tins), Fastnet Surgical Dressing Co., Ltd. (agents, John Timpson & Co., Ltd.) (dressings), Govier & Co., Ltd. (manicure sets), Isola, Ltd. (vacuum flasks), G. B. Kent & Sons, Ltd. (brushes), The London Filter and Pump Co., Ltd. (filters), Meccano, Ltd. (toys), Orbit Electrical Co., Ltd. (batteries), R. A. Rooney & Sons (brushes), Storey, Evans & Co., Ltd. (cardboard containers and advertising matter), Tele-Dis Services (Founders) Co., Ltd. (disinfection service), and William Warne & Co., Ltd. (rubber bottles).

It remains to be added that postal and telephonic facilities and a writing-room are provided for the use of visitors. There are also interpreters in attendance. As we have indicated, the exhibition remains open to members of the trades until March 5.

A Roumanian Pharmaceutical Bank has been founded in Bucharest, with a capital of five million lei, with the object of undertaking the importation of pharmaceutical products and medical appliances.

Medicine Chests for Schools.—The Polish Minister of Public Health has decided to place medicine chests in 1,500 schools. These chests will contain soap, bandages, the more important first-aid remedies, ointments against frost-bites and against lice.

Co-operative Medical Service.—A Dutch Co-operative Society (*De Volharding*, the Perseverance, at The Hague, the capital of Holland) provides a medical service, the benefits of which are also shared by the two other co-operative societies in the city, *De Eigen Hulp* (Self-Help) and *De Hoop* (Hope). The service comprises two pharmacies, a clinic completely equipped, with analytical chemists, nine medical specialists, thirty-one doctors for ordinary cases, infirmaries, and a service for sending medicines from the central pharmacy to the homes of members, amounting to 40,000 in the three societies. The pharmacies have their own proper localities, and have stocks of medicaments to meet the needs of every case; and they sell almost exclusively to members. In the past year the work of the pharmacies is represented by over half a million prescriptions despatched.

Chemical Society.

At the meeting of the Chemical Society, held in Burlington House, on February 19, the President, Sir James Dobbie, informed the Fellows that the new Charter had been granted by the King, and that an extraordinary meeting would be called to discuss the new rules of the Society. Miss Roscoe has presented her father's letters to the Society, representing a very valuable and interesting collection of documents, including autograph letters of practically every chemist of renown of that period.

The first paper read was that by Dr. S. B. Schryver and C. C. Wood, on *A New Method for the Estimation of Methyl-alcohol*. These experiments had been carried out for the purpose of estimating the amount of methyl-alcohol occurring in plants, and the method is based on the oxidation of methyl-alcohol to formaldehyde by ammonium persulphate, using concentrations varying from 0.1 to 5 per cent. of the latter, heating the mixture for ten minutes on the water-bath, and then applying the phenylhydrazin test for the presence of formaldehyde, the amount present being estimated by the colorimetric method, by comparing with a scale of colours. This method is extremely delicate, and permits the detection of 0.5 milligram of methyl-alcohol in 100 c.c. It may also be employed for the estimation of methyl-alcohol in acetone, but for estimating methyl-alcohol in ethyl-alcohol it is necessary to use an excess of ammonium persulphate. The paper was illustrated by a practical demonstration of the application of this test.

Sir William Pope then read a paper (in collaboration with C. S. Gibson), on *ββ-Dichlorethyl Sulphide*. Mustard-gas was first used by the Germans in 1917, and the process adopted by them consisted of three stages : ethylene was first converted into ethylenechlorhydrin, then into the sulphide, and, lastly, treated with hydrochloric acid. The authors first studied this question towards the end of 1917, and investigated the reactions following the treatment of ethylene by the chlorides of sulphur. By the interaction of sulphur dichloride on ethylene and then distilling, a product containing 90 per cent. of the real substance was obtained. However, it was found that the sulphur dichloride acted on the mustard-gas, hence the lower yield, and the action of sulphur monochloride on ethylene was then investigated, with the result that it was found that this process yielded pure mustard-gas. An excess of sulphur in sulphur monochloride was used, and dry ethylene, at a temperature of 60°, adding 5 per cent. of mustard-gas as a catalyst. Pure mustard-gas has a melting-point of 14°. The observation was made that when working at a temperature of 60° a portion of the sulphur crystallises out, while a portion is retained in the form of a pseudo-solution. The latter statement formed the chief subject of the discussion which followed the reading of this interesting paper, in which Professor Green advanced a formula of an entirely new type in explanation of this point, and rejected the theory of a pseudo-solution. He also referred to the violent reaction which takes place in the presence of a trace of iron in the process of manufacture.

The following paper, read by B. Flurscheim, on *The Relation between Dissociation Constants of Acids and Bases and the Quantitative Distribution of Affinity in the Molecules*, dealt with the steric form of a very weak acid, which, being scarcely hydrolysed, is almost devoid of the characters of an acid.

The Direct Replacement of Negative Groups by Halogen in the Aromatic Series was the subject of the paper presented by S. Dhar, and detailed the results of the author's investigations in replacing the nitro group by bromine, at a temperature of 200° to 300°, in nitro derivatives of the aromatic, xanthone, anthaquinone, and coumarin series, and a study of the resulting products. The advanced hour did not permit of a discussion of this paper.

The next meeting of the Society will take place on March 4, and an informal meeting will be held on March 25.

Drug-workers' Wages.

An application was made to an Industrial Court sitting in London on February 19, to decide whether certain members of the Drug and Fine Chemical Manufacturers' Association carrying on business in Edinburgh are entitled to pay a lower rate of wages than the agreed minimum rates applying to London and certain other districts in accordance with the resolution of September 13, 1918, as follows :

Resolved that we accept the established minima as previously agreed upon to apply to London, Cheshire, Lancashire, and Yorkshire districts. The Union's representatives assume that firms in all other districts shall also pay the agreed minima, understanding that, in any district other than those named above, firms possess the right to state a case to the Committee on Production to pay a lower rate than the agreed minima on the ground that the general rate of wages paid to labour in the district justified corresponding adjustment in the rates of wages to be payable by members of the Association in that district.

The matter was referred under the Industrial Courts Act, 1919, by the Ministry of Labour to the Industrial Court for settlement. Representatives of the parties were heard in London on January 30, 1920. The houses concerned are J. F. Macfarlan & Co., T. & H. Smtih, Ltd., and Duncan, Flockhart & Co., all of Edinburgh. The resolution set out in the terms of reference was passed at a joint conference of the Drug and Fine Chemical Manufacturers' Association and representatives of various trade unions held on September 13, 1918. Subsequently to this a local agreement was entered into between the National Union of General Workers and the three Edinburgh firms, which provided that in Edinburgh the rate for males should be 3*s*. less than the London rate for Class 3; 2*s*. less for Class 2; and 3*s*. less for Class 1. For females the difference was 2*s*. 6*d*. for Classes 4 and 3, and 3*s*. for Classes 2 and 1. This agreement was confirmed by the local branch of the National Warehouse and General Workers' Union, and afterwards repudiated by the Executive Committee of that Union, their contention being that the procedure adopted by the local bodies was a violation of the agreement entered into at the conference held on September 13, 1918. Conferences took place between the parties, but no settlement was arrived at, and the Association referred the matter to arbitration in accordance with the terms of the resolution of September 13, 1918. After consideration of all the evidence and arguments submitted to them, the decision of the Court is that the Association has failed to show "a case . . . to pay a lower rate than the agreed minimum on the ground that the general rates of wages paid to labour in the district justified a corresponding adjustment in the rate of wages to be payable by members of the Association in that district," and that, therefore, the claim of the Association is not established. At the same time, the Court held that the local agreement is valid and should continue to be observed until the date from which this decision of the Court shall take effect. This decision shall commence from the beginning of the first pay period following February 16, 1920.

Chemists' and Druggists' Society of Ireland.

Annual Meeting.

The annual meeting of the Chemists' and Druggists' Society of Ireland was held on February 18 at the Society's headquarters, 11 Waring Street, Belfast, the outgoing President, Mr. Samuel Suffern, in the chair. Among those present were Messrs. Samuel Gibson, J.P., F. T. Smith, J.P., F. Storey, W. J. Rankin, R. A. Jamison, S. McDowell, E. J. Roberts, W. J. Gibson, A. E. Davis, J. Long, J. Macauley, W. Martin, J. Guthrie, J. Frackleton, J. D. Carse, F. Lindsay, G. Johnson, H. McRoberts, D. Taylor, A. R. Hogg, and S. Nevin, hon. secretary. The hon. secretary, in his annual report, said that the membership has been very consider-

ably increased, and there is now a larger membership than there has been for years. With regard to the Profiteering Act, the Committee decided that their interests would be best served by joining with the Ulster Retail Drug-trade Association in watching the working of the Act, and taking any joint action which may be necessary. It is hoped by this means to be in a better position to safeguard the interests of the members, who were recommended strictly to adhere to the Association price-list, and if they do so there is not much danger of any of them being brought up for profiteering. The twelfth Sir James H. Haslett memorial Gold Medal was awarded to Mr. Wm. Laggart, Belfast, who gained the highest marks at the Registered Druggists' examination in 1918. Mr. S. Gibson (treasurer) presented the financial statement, which showed a balance to credit. Mr. F. T. Smith, in moving the adoption of the report and statement of accounts, referred to the various activities of the Society during the year. He congratulated the Society on its financial position, and believed that a year of great usefulness was in store for it. The motion was passed unanimously.

Election of Officers.

Mr. Suffern moved the election of Mr. Fred Storey as President for the year, referring to his long connection with the trade and his work on behalf of the Society. Mr. Nevin seconded the motion, which was passed unanimously, and Mr. Storey took the chair. On the motion of Mr. S. Gibson, seconded by Mr. Martin, Messrs. F. T. Smith, J.P., Joseph Moffet, and T. Sandford (Newtownards) were elected Vice-Presidents. Mr. Frackleton moved and Mr. Suffern seconded the reappointment of Mr. Nevin as hon. secretary, which was unanimously agreed to. Mr. S. Gibson, J.P., was reappointed treasurer and Messrs. Martin and Roberts were elected auditors. The election of the following Committee was agreed to: Messrs. Jacob Walsh, W. J. Gibson, J. D. Carse, W. Martin, J. Richardson, Samuel McBowell, R. A. Jamison, F. Lindsay, J. Macauley, W. E. Wilson, C. Abernethy, F. Boyle, H. Marshall, D. Taylor, G. Johnson, J. Guthrie, J. F. Grimes (Pomeroy), J. Frackleton, W. J. Rankin, and R. Kells.

Presentation of Portrait.

Mr. R. A. Jamison presented the Society with a handsomely framed photograph of his father, the late Mr. Wm. Jamison, who was for several years President of the Society. The President thanked Mr. Jamison, and Mr. Samuel Gibson, in accepting the portrait as trustee, referred to Mr. Jamison's long and continued interest in the Society, and to his own happy association with him, both in private and public life.

The New President.

Mr. Fred Storey, the newly elected President of the Chemists' and Druggists' Society of Ireland, is chairman of Fred Storey, Ltd., and is one of the best-known men in the drug trade in the country. He served his apprenticeship with John Clarke & Co., Ltd., Belfast and Dublin, and was that company's drug representative when it was wound up in 1911. Thereafter he started business for himself as a manufacturing chemist, wholesale druggist, and surgical-instrument dealer in Alfred Street, Belfast. Mr. Storey has long taken an active interest in athletics. He was one of the founders of the Knock Rugby Club, of which he is a Vice-President, and he won many prizes on the track. As a cyclist he is officer commanding the Belfast Squadron of the Legion of Frontiersmen, and during the war raised a fine battalion of recruits for the 25th (Frontiersmen) Battalion Royal Fusiliers for service in East Africa, under Colonel Driscoll, C.M.G., D.S.O., who is his warm personal friend.



Mr. Fred. Storey.

Organising the Drug-trade.

Drug Union Meetings.

The members of the Bradford branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers met on February 16, under the chairmanship of Mr. G. H. Mitchells. The hon. secretary (Mr. J. H. Batley) submitted correspondence from headquarters, in response to the Association's objection to what was considered the unfair proportion of strike levy placed upon the retail side during the Cheltenham dispute. The question was raised as to whether the branch should send a delegate to the Union's adjourned general meeting in March, and it was resolved that, if arrangements can be made, Mr. Ingham shall represent Bradford. The resignation was accepted, with regret, of Mr. J. Burnside.

At a mass meeting of managers and assistants, held in Terry's Theatre, London, by the Amalgamated Society of Pharmacists, Drug and Chemical Workers, on February 22, it was stated that the majority of the workers engaged in the London retail pharmacy are receiving less in wages than street scavengers and dustmen. Mr. Fred Hawkins, organising secretary, said at present there is only one employé on the Pharmaceutical Council. There will be seven vacancies in May, and a big effort is to be made by the union to get stronger representation. Immediate steps are also to be taken to secure recognition by the Pharmaceutical Committees associated with the Ministry of Health, and amalgamation with the National Association of Chemists' Assistants is being arranged.

The monthly meeting of the London Retail Branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers, was held on February 17. The financial statement, read by the treasurer (Miss Bridges) was adopted. The delegate to the annual general meeting was instructed to press for the entire deletion of the 3*d*. rate of contribution. In view of the late hours of assistants in London, it was decided to hold branch meetings the second Sunday in each month at 11 A.M. It was decided to put a resolution to the general meeting: "That London retail employés request the Drug Union to approach the Pharmaceutical Committees of London, Essex, Surrey, etc., and the Ministry of Health for recognition." The meeting then entered into a serious and detailed consideration of the minimum rates as adopted by the staff of Boots, Ltd., at Anderton's Hotel, and it was agreed that, with the possible exception of the 5*l*. 15*s*. weekly rate for unqualified assistants, the figures put forward are not excessive.

N.A.C.A. Meetings.

The first annual meeting of the Derby branch of the National Association of Chemists' Assistants was held on February 12, Mr. J. Cooke presiding. After the election of officers and committee for the ensuing year, a discussion took place on the apprentice question and the Hours of Employment Bill, a resolution on the latter being passed urging the inclusion of managers in the Bill. Copies have been sent to the local M.P.s and the Ministers of Health and Labour. The minimum-wage scale adopted by the National Executive was received with satisfaction.

The annual meeting of the Rochdale branch of the National Association of Chemists' Assistants was held on February 12. The rules of the branch were unanimously adopted. A favourable reply was received from the Rochdale Education Committee, in response to a request for the provision of classes in pharmacy and materia medica in conjunction with those for chemistry and botany. It was decided to write to all unqualified members to ascertain how many would take advantage of these classes, and also to the employers. The following officers were elected: *Chairman*, Mr. F. Pickering; *Secretary*, Mr. R. W. Parker: *Treasurer*, Miss Bolton; *Committee*, Messrs. Thomas, Fielding, Holt, and Murphy. It was decided to hold a social evening at an early date.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

SUMMER TIME

will this year begin on March 28 and end on September 27.

AMENDING THE DENTISTS ACT.

It is hoped, said Dr. Addison on February 19, to introduce legislation this Session for the purpose of carrying out the recommendations of the Departmental Committee on the Dentists Act.

WHAT IS BENZOL?

Sir Harry Brittain, on February 19, complained that crude benzol is being offered at 50 per cent. in excess of the standard price fixed by the National Benzol Association, and that it is mixed, in some cases, with paraffin and inferior petrol, to the detriment of British industry.

Mr. Bridgeman, who replied, said the question as to whether the term "benzol" in the cases complained of is a false trade description is one for the Courts to determine.

MR. J. O'GRADY'S MISSION.

Mr. J. O'Grady, M.P., has practically completed his mission in connection with the exchange of prisoners with Litvinoff, and is (writes our Parliamentary correspondent) only returning to Copenhagen on Saturday in order to satisfy himself that the arrangements which have been made are working satisfactorily. Large quantities of every description of medical stores and supplies have been sent through, and much disinfectant, in view of the deplorable condition of many of the prisoners. As to this, Mr. O'Grady spoke with great frankness.

WAR EMERGENCY LAWS (CONTINUANCE) BILL.

The further consideration of this measure, which continues a large number of the Regulations made under the Defence of the Realm Act, occupied the House of Commons on February 24. The second Schedule enumerates the various regulations, but on the date mentioned Regulation 10B, "Power to restrict hours in the evening during which business may be carried on"; 40B, "Restriction on the supply, preparation, and use of cocaine and opium"; and 40BB, "Purchase and distribution of drugs designed for the treatment of venereal disease," were not reached before the adjournment.

EXPORTING FERTILISERS.

The Parliamentary Secretary to the Board of Agriculture explained on February 19, in the House of Commons, that under the existing arrangements the export of sulphate of ammonia is prohibited except under licence, and the price at which this material is sold by manufacturers in this country is fixed by agreement between manufacturers and the Ministry of Agriculture and Fisheries. In regard to the future, the question is receiving the very close consideration of the Ministry, with a view of securing adequate supplies of sulphate of ammonia and other fertilisers at reasonable prices after the close of the present season.

PROFITEERING IN DYE PRODUCTS.

Major Barnes asked the President of the Board of Trade, on February 23, if he will state the cause of the delay in calling together the Committee appointed by the Central Profiteering Committee to inquire into the effect on prices and profits of dye products of the action of the British Dyestuffs Corporation; and if he will say when the Committee will meet.

Sir A. Geddes replied: Some delay has arisen in calling together this Committee, owing to the desirability of extending the scope of the terms of reference and the possible appointment of additional members from outside the membership of the Central Committee, but it is hoped that it will meet at an early date.

ANTI-INFLUENZA VACCINE.

Mr. Lunn is raising, as we go to press, the question of the inoculation of the troops with anti-influenza vaccine in 1915-1919. He is asking Mr. Churchill whether at any time during those years consignments of assorted anti-influenza vaccines, each labelled distinctively, were sent to Army medical officers in charge of troops, with instructions to inoculate batches of soldiers with the different vaccines and to note carefully the effect of each vaccine as regards preventing influenza; whether instructions were sent to medical officers that they should inform the soldiers that the inoculation was entirely voluntary; and whether some of the medical officers who made the trial found that the vaccines had no effect at all.

DEATHS FROM SALVARSAN.

Mr. Waterson asked the Minister of Health, on February 24, whether his attention had been drawn to the particulars as to a large number of deaths of soldiers after arsenical treatment for syphilis, given in the paper read by Brevet-Colonel L. W. Harrison at a meeting of the British Medical Association in April 1919; whether any special inquiries have been made into the cause of the deaths in question; and, if so, whether it is proposed to publish the results of the inquiries.

Dr. Addison replied: The answer to the first part of the question is in the affirmative. A special Committee appointed by the Medical Research Committee is inquiring, *inter alia*, into the toxic effects of arseno-benzol compounds, and the report of that Committee will be published in due course.

NICOTINE INSECTICIDE.

Commander Bellairs, on February 23, asked the President of the Board of Trade whether he is aware that nicotine is one of the most effective insecticides used by fruit-growers; whether he is aware that its use would be extended but for its present high price; whether he can state the available stocks in the country; and will he consider a recommendation to take off the duty on nicotine when used as an insecticide by agriculture.

The Parliamentary Secretary to the Board of Agriculture replied that the Ministry of Agriculture and Fisheries are aware that nicotine is one of the most effective insecticides used for horticultural purposes, and that its use would probably be extended but for its present high price. They have no records of the available stocks in this country. As regards the last part of the question, he informed the member that no import duty is charged on solutions of nicotine which are not of the character of tobacco extracts, and similar solutions may be manufactured in this country from duty-free tobacco in bonded premises, and under conditions specially approved by the Board of Customs and Excise.

MORPHINE EXPORTS.

Mr. Gilbert, on February 24, asked the President of the Board of Trade what was the total amount of morphia of British manufacture exported in the year 1919; what amount was exported to Japan and the United States respectively; whether the amounts include consignments by post; and what amount of opium was imported from India, Persia, and Turkey respectively into Great Britain during the year 1919.

Mr. Bridgeman replied: The quantity of morphia and morphia salts registered as exported from the United Kingdom in the year 1919 was 322,970 oz., of which 121,474 oz. went to the United States of America. The records show that no morphia and morphia salts were exported to Japan. No particulars are available with regard to consignments by post. The quantities of opium registered as imported into the United Kingdom during the year 1919 from British India, Persia, and Turkey, respectively, were as follows:

	lb.
British India	466,475
Persia	30,558
Turkey (European)	204,966
Turkey (Asiatic)	133,157

SCIENCE IN WARFARE.

The work of the War Office since the Armistice was summarised in a White Paper issued this week by the War Secretary. In this Memorandum the following paragraphs occur:

Chemical Warfare.—So long as there is any danger of other nations continuing these methods of warfare, research and experiment in chemical warfare must be pursued.

Research must not only be directed towards the gases and apparatus likely to be employed in the future, but also towards the protection against all possible gases. Training in the use of gas will be confined to appropriate branches, but training in defensive measures will include the whole Army.

Further on in the same Memorandum is the following: We must unfortunately continue our studies of what is known as chemical warfare. No nation has renounced the use of poison gases as the result of the Peace Conference. There are nations whose word we could not respect if they did renounce it. It is essential to study the offensive side of chemical warfare if we are to be prepared for defence. The great importance of adequate defensive appliances arises from the fact that preparations for the offensive use of gas can be made in peace time with great secrecy, and may have far-reaching, and even fatal, results in the early stages of a war.

Technical Personnel.—The largely increased requirements of the Army in highly skilled technical *personnel* presents a serious problem. By the institution of training schools for the instruction of lads during the early years of their military service it is hoped that the Army will, in future, be almost entirely self-supporting in this respect. A Committee is now engaged in the investigation of this subject, and detailed plans are being drawn up.

Research.—It is necessary to make adequate provision for research, experiment, and design in connection with war material. It is equally necessary to avoid overlap, duplication of effort, and the setting up of military institutions for scientific research, which can better be done by existing civil institutions. It is our policy to farm out to civil scientific institutions, such as the universities, the National Physical Laboratory, the Imperial College of Science and Technology, etc., all pure research that can profitably be farmed out, and, generally speaking, to restrict military institutions to applied research and the preliminary design of apparatus.

Veterinary Surgeons Act (1881) Amendment Bill.

This Bill, which is to be read a second time on March 4, was introduced in 1911, 1912, 1913, and 1914, for the purpose of empowering the Royal College of Veterinary Surgeons to impose a fee of 1*l.* 1*s.* on all members of the College (with certain exceptions). The present income of the College, states the memorandum to the Bill, is not sufficient to enable it to carry out the duties imposed upon it by the Veterinary Surgeons Act, 1881, and its various charters. Since the outbreak of the war subscriptions of a guinea a year have been paid voluntarily by a large number of members in order to enable the College to carry on its work until such time as the Bill can be passed into law. At the present time over 1,100 members out of 3,300 on the register are thus voluntarily subscribing to the funds of the College. The measure is necessary in order to place the College on a satisfactory financial basis, and to enable it to meet the new demands which will be made on it during the period of reconstruction. The Bill has been approved by the Privy Council, and is supported by the general body of the profession. In the Report of the Departmental Committee on the Public Veterinary Services, issued in 1913, it is stated that:

the lack of funds seriously hampers the work of the College. With a view to improve its financial position the College is seeking power in a Bill now before Parliament to charge an annual fee of one guinea on each of its members and fellows. This Bill, we understand, has the support of the great majority of the profession, but so far little progress has been made with its consideration. We are of opinion that the College is performing work of great national importance, and that its efforts to maintain a high standard of veterinary education in this country are worthy of every encouragement.

Section 4 makes companies liable for offences the same as individuals, which cannot now be punished. Section 19 of the Interpretation Act, 1889, which is to the same effect as the clause asked for, is not retrospective.

The Quinine Report.

Mr. Glanville asked the Parliamentary Secretary to the Ministry of Munitions, on February 23, why an official of the Ministry was on the Profiteering Committee; if this official has been withholding information from that Committee; and whether all files and documents appertaining to quinine in the Foreign Office, Ministry of Munitions, and the War Office (Contracts Branch) were submitted to the Committee?

Mr. Kellaway: An official of the Ministry conversant with the dealings in quinine was asked by the Board of Trade to serve on the Committee of Inquiry. So far as the Ministry of Munitions (War Office Contracts Section) is concerned, no information was withheld.

Mr. Glanville asked also whether the Parliamentary Secretary to the Ministry of Munitions has any statement to make as to the quinine transaction conducted by his Department with the British Quinine Corporation, which transaction is adversely criticised in the Board of Trade Profiteering Report?

Mr. Kellaway replied that the report has been published, and he did not think it calls for any statement.

Mr. Glanville then asked whether Mr. Abrahamson rendered valuable services to the associated Governments during the war in connection with obtaining quinine supplies at a time when they were urgently needed for tropical campaigns; and whether the Government has awarded Mr. Abrahamson any recognition for those services which were rendered by him in the capacity of a second lieutenant?

Mr. Kellaway's reply was: Mr. Abrahamson was attached to the Contracts Branch of the War Office from September 1917 to April 1919, and rendered good service in connection with the supply of quinine for the Army. Whilst so employed he held the rank and drew the pay of a second lieutenant. His services were of considerable value to the Army, but, as was the case with many other officers, no special recognition was awarded him.

Prices of Potash Compounds.

The President of the Board of Trade, on February 23, gave the following table of the imports from Germany and Alsace of potash compounds since the Armistice:

The approximate quantities and values of potash compounds imported from Germany and Alsace since the Armistice, for agricultural and industrial purposes respectively, are shown in the following statement:

	Quantity.	Value.
	Tons.	£ c.i.f.
Germany—		
For agricultural use ...	19,820	323,727
For industrial use	4,301	182,446
Alsace—		
For agricultural use* ...	37,258	275,476
For industrial use	100	2,250

The ruling prices of potash in Germany, according to the Board's present advices, are as follows:

12-15 per cent. potash salts, per 100 kilos., 60 pfennigs per 1 per cent. potash.

20-22 per cent. potash salts, per 100 kilos., 74 pfennigs per 1 per cent. potash.

30 per cent. potash salts, per 10 kilos., 83 pfennigs per 1 per cent. potash.

40-42 per cent. kali magnesia, per 100 kilos., 97 pfennigs per 1 per cent. potash.

80 per cent. muriate, on basis of 60 per cent. K_2O, per 100 kilos., 115 pfennigs per 1 per cent. potash.

Sulphate of potash, per 100 kilos., 152 pfennigs per 1 per cent. potash.

The sale prices of German potash compounds to English consumers for industrial purposes are as follows:

(*a*) *Material acquired by British Government in part payment for food stuffs.*

Sulphate 90 per cent., 23*l.* 2*s.* 6*d.* per ton bagged material c.i.f.

Muriate 80 per cent. 20*l.* per ton bagged material c.i.f.

Muriate 90 per cent., 21*l.* 10*s.* per ton bagged on 80 per cent. basis c.i.f.

(*b*) *For caustic potash 88-90 per cent. brought in under arrangements made through the Board of Trade.*

The following maximum prices were fixed for material delivered at consumers' works:

Up to December 31, 1919, 100*l.* per ton.

From January 1, 1920, 116*l.* 5*s.* per ton.

(*c*) He is unable to state the prices at which other German potash compounds were sold to British purchasers.

* The average potash content of this material is considerably lower than that of the German material

Festivities.

Irish Chemists' and Druggists' Social.

THE annual social meeting of the Chemists' and Druggists' Society of Ireland followed the general meeting on February 18, when the members were joined by their friends. The newly elected President (Mr. Fred. Storey) welcomed those present and introduced a miscellaneous programme which proved most enjoyable. The artists were Mrs. Abernethy, Mrs. Guthrie, Misses Galway, Storey, Waterworth, Martin; Messrs. Walsh, Hayes, Storey, Gemmell, Fawcett, Birrell, and Band. Messrs. Parker and Reside were accompanists.

Hammersmith and Fulham Chemists' Dinner.

THE second annual dinner of the Hammersmith and Fulham district of the London (Western) Pharmacists' Association was held on February 19 at the Clarendon Restaurant, Hammersmith, the President of the Association (Mr. Watson) in the chair. Among others present were Messrs. W. J. U. Woolcock, O.B.E., M.P., Edmund White, W. Browne, C. A. Noble, H. Martin, W. Wilkinson, B. R. Wilkinson, W. Shirtliff, H. R. Procter, and J. Widgery. An enjoyable concert followed the dinner, the artists including the Misses Melluish, Hall, Wilkinson, Widgery, and Watson, Mrs. Edwards, the President (with a medico-pharmaceutical ditty), and Messrs. Lloyd, Milner, Widgery, and Hamilton. The arrangements were made by Messrs. Shirtliff, W. Wilkinson, H. R. Procter, and J. Widgery.

Glasgow Pharmacy Athletic Club.

THE last whist-drive and social in the series instituted by the club was held in the Association's house, 165 Hill Street, on February 17. Mr. W. Wood Wilson (President) presided, and there was the usual crowded attendance. Mrs. Dow presented the prizes given on this occasion by D. & W. Gibbs, Ltd., to :—*Ladies* : 1st, Mrs. Crawford; 2nd, Mrs. Abbott. *Gentlemen* : 1st, Mr. John Murchie; 2nd, Mr. James Sloan. The following artists contributed to a splendid programme : Mrs. Crawford (Greenock), Mr. Dickson (Glasgow), Mr. MacDonald, Mr. Sloan, and Master G. D. Mackenzie. Mr. Murchie proposed a vote of thanks to the artists, referring specially to Mr. Grant, who had acted as accompanist on so many occasions, and to Miss MacCallum and the committee who attended to the catering. Mr. Wilson reminded the audience of the three forthcoming social events.

Derby Pharmacists' Dinner.

AFTER an interval of some years, the annual dinner of the Derby (Borough) Pharmaceutical Association was held on February 18. Ladies were present for the first time since its inception. The guests of the evening were Messrs. J. W. Deakin (representing the Pharmaceutical Society), A. E. Young (Leicester), and C. W. Ridyard (Codnor), of the Local Associations Executive for No. 6 area. Mr. S. Taylor presided, and about seventy pharmacists and their friends were present. After the dinner and the loyal toast had been duly honoured, Mr. J. A. Cope (the first President and founder of the Association) proposed "The Pharmaceutical Society." Mr. J. W. Deakin replied. Mr. A. E. Young proposed the toast of "The Local Association" in a humorous speech, and the President responded. Mr. Clement W. Ridyard proposed "The Manufacturing and Wholesale Section," to which Mr. E. Morrison replied. Mr. H. G. Toy proposed "The Visitors," and Mr. D. McCall Aird responded. Numerous musical items were interspersed with the toasts, Miss A. Reader, Miss Goodall, Mr. C. Daykin Turner, Mr. W. Fander, and Mr. H. Sturgess contributing to make the feature a success.

Aberdeen Chemists' Whist Drive.

THE Aberdeen Pharmaceutical Association and Pharmacists' Golf Club had an enjoyable whist-drive and dance in the Grand Hotel on February 18. At supper, under Mr. Hay, President of the Association, quite seventy sat down. Mr. Hay expressed pleasure that they were able to resume these festive meetings. He regretted the absence through illness of three stalwart supporters of the Association, Messrs. Giles, Simpson and Craig. Mr. Beattie (captain of the Golf Club) thanked the Association for asking the Golf Club to join in the entertainment and gave particulars of the various competitions; he thanked the donors of the prizes, and suggested various ways by which the prizes could be increased in number. Mrs. Beattie handed over the prizes to the following : "*Ness*" *Challenge Cup and Silver Fern Pot*, Bailie Taylor, Inverurie; *Gold Pendant* (runner up), W. G. Mitchell; "*Paterson*" *Challenge Cup and Silver Cigarette Case*, Mr. John Forsyth; *Case of Silver Butter Knives* (runner up), Thomas Milne; *Ladies' Stroke Competition* (prize presented by Mr. W. G. Mitchell) and *Ladies' Match* (prize presented by Mr. J. R. Reith), both won by Miss K. G. McConnachie; (runners up), Miss Dawson and Miss Simpson. Votes of thanks were proposed by Dr. Tocher, Mr. Bonner (Wm. Davidson, Ltd.), and Mr. Ross (Paterson & Sons), after which an adjournment was made to the ballroom. The prizes won at the whist-drive were presented by the President to Miss Reid and Miss Mackie, Mr. Anderson and Mr. Runcie. Mr. Wallace gave musical items on the mandolin and Miss Bonner a recitation. Mr. Farquhar was convener of the Entertainments Committee, and Mr. Forsyth the representative from the Golf Club.

North London Pharmacists' Dinner.

THE first annual dinner of the North London Pharmaceutical Association, postponed from the year of the outbreak of war, was held at the Florence Restaurant, Rupert Street, W., on February 19, the President (Mr. C. W. Andrew) in the chair. The informal reception preceding the dinner went to show that the members were none the worse for their recent adventures in ecclesiastical territory, but, on the contrary, were in the best of spirits. The cry of "Dinner is served" was the signal for a move in group formation, and parties of friends sat together as they chose. Looking round the cheery tables, we noticed, among other well-known people, Mr. T. Edward Lescher, Sir William Glyn-Jones, Mr. Herbert Skinner, Mr. John Keall, Mr. A. R. Keith, Mr. G. Duncan Bowie, Mr. A. R. Arrowsmith (the Apollinaris Company, Ltd.), Mr. D. Lewis (The British Drug Houses, Ltd.), Mr. G. A. Tocher, Mr. George F. Weiss, and Mr. B. Webster. The loyal toast was given with musical honours, and was followed by an instalment of a concert-programme of considerable merit, the brilliant humour of Miss Violet Stephens and Mr. Jack Rickards causing Homeric laughter. The toast-list was short—*O si sic omnes!*—and the speeches were models of tact. Mr. Lescher, in proposing the first toast, "The Pharmaceutical Society," twitted the organisers of the dinner on their remarkable modesty—exemplified in the fact that they had selected visitors both to propose the toasts and (with one exception) to reply. Having pointed out that the occasion was an historic one, Mr. Lescher said some nice things about the Pharmaceutical Society. It was bound to prosper, he suggested, in virtue of having a Scottish President and a Welsh secretary. (Laughter.) Sir William Glyn-Jones, in reply, said that he was proud of his membership of the North London Association. It was to that Association that he looked for the kind of criticism that came from those who wish the Pharmaceutical Society well. Speaking of reconstruction, Sir William remarked that the events of the past year which caused the most notice may not have the most permanent effect. There was no room for "artificial parties" in administrative work—and this pronouncement he reiterated in concluding. Mr. John Keall, a member of the Council of the Pharmaceutical Society, briefly proposed "The North London Pharmaceutical Association," and the President as briefly responded. Mr. Andrew insisted that the hope for pharmacy lay in combined effort, and raised a sympathetic laugh by a reference to the old type of individualist, tied to his counter lest he should miss an Insurance prescription. Before sitting down the President mentioned that

apologies for absence had been received from Mr. T. H. Idris, Mr. W. J. Uglow Woolcock, M.P., Mr. C. A. Hill, Mr. F. W. Fletcher, and Mr. Alfred Higgs, the last-named of whom was engaged in a Profiteering Act case. (Applause.) The remaining toast, "The Ladies," was given in a rollicking speech by Mr. A. R. Keith, whose long experience was evident in the masterly phrasing of his compliments. To the delight of the gathering, Lady Glyn-Jones replied in a few epigrammatic sentences—thus initiating, it may be suggested, an admirable custom. The singing of "Auld Lang Syne" ended an entirely successful evening.

Birth.

Pout.—At Galen Pharmacy, Worcester, on January 28, the wife of Donald G. Pout, chemist and druggist, of a daughter.

Marriages.

Franklin—Thompson.—At St. Augustine's Church, Brighton, on February 25, Leonard Davies Franklin, pharmacist, only son of Mr. A. J. Franklin, pharmacist, 86 King's Road, to Ida Aldren, second daughter of Councillor J. Lord Thompson, Hollycombe, Springfield Road.

McDermott—Fleming.—At the Pro-Cathedral, Dublin, on January 20, by the Rev. James McCabe, Albert Leo McDermott, R.D., youngest son of Mr. Patrick McDermott, Pierscourt Shercock, to Bridie, second daughter of Mr. Andrew Fleming, Swan House, Athy. No cards.

Deaths.

Adams.—At 70 Granby Street, Liverpool, on February 21, Mr. Thomas Edwin Adams, chemist and druggist (Thomas Edwin Adams & Son). Mr. Adams, who was the son of the late Mr. T. E. Adams, chemist and druggist, qualified in 1878. He carried on business in Granby Street, in succession to his father, for many years, and was well known and much esteemed in the district. The funeral took place at Smithdown Road Cemetery on February 24.

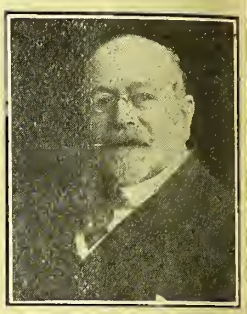
Barrow.—At his residence, Woodhay, Malford Grove, South Woodford, on February 15, of pneumonia, Mr. Joseph Barrow, a director of Edward Cook & Co., Ltd., Bow, London, E. 3. Prior to joining the board of Edward Cook & Co., Ltd., in 1912, as a managing director, Mr. Barrow had been with Lever Bros., Ltd., Port Sunlight, for several years. He was an accomplished technical chemist, and was keenly interested in everything pertaining to the welfare of the company's workers. He was at the works so lately as February 12, although then suffering from what was apparently a cold. The funeral took place at St. John's Parish Church, Buckhurst Hill, on February 18, when some hundreds of the staff of Edward Cook & Co., Ltd., were present to pay the last tribute of respect.

Benger.—At Linksfield, Bidston Road, Oxton, Birkenhead, recently, Mr. F. Andrew Baden Benger, a director of Benger's Food, Ltd., Manchester.

Cowan.—At Kensington, on February 21, Mr. William James Cowan (chairman of Cowan Bros., Ltd., London House, Crutched Friars, E.C. 3), aged sixty-three years. Mr. Cowan was well known in the chemical and colour trades, and had been engaged in business since 1885. The firm of Widenmann, Broicher & Co., Ltd., general merchants, was taken over by his company in August 1918.

Fison.—At Stutton Hall, on February 19, Mr. James Oliver Fison, J.P., chairman of Joseph Fison & Co., Ltd., manufacturing chemists, Ipswich and Bramford, aged seventy-five.

Forster.—The funeral of Mr. J. F. Forster (chairma of Fuerst Brothers, Ltd., chemical merchants, 17 Philpo Lane, London, E.C. 3), whose death was recorded in our last issue (p. 57), took place on February 19 at Willesden Cemetery. There was a short and impressive service at 30 Hamilton Terrace, N.W., prior to the interment, the Rev. —. Price officiating, and the Chief Rabbi (Dr. Hertz) assisting. The principal mourners were Messrs. Jules and Max Fuerst, brothers of the deceased. The floral tokens were numerous, and had to be conveyed in a special carriage. Among those who attended were Messrs. J. Murison, Davis, Boehm, Cas more, and Karminski.



Mr. J. F. Forster.

Hendry.—At a Glasgow nursing home, on February 1 Mr. David Hendry, chemist and druggist, 13 Can Street, Renfrew, aged fifty.

Langman.—At Chatteris House, Cliff Street, Whitb on February 13, Mr. Jonathan Langman, chemist ar druggist, aged seventy-three. Mr. Langman was f many years in business at Old Chester Road, Tranmer Birkenhead.

Reynolds.—At his residence, 3 Inverness Garden London, W. 8, on February 19, suddenly, Mr. Jam Emerson Reynolds, M.D., D.Sc., F.R.S., aged sevent five. Dr. Reynolds was educated at Dublin Universit where he was Professor of Chemistry and Chemical Phil sophy from 1875 to 1903. Although he qualified in med cine and surgery (at Edinburgh) in 1865, his interes lay in chemical research. In 1870 he was appointed Pr fessor of Analytical Chemistry to the Dublin Roy Society, and in 1873 Professor of Chemistry to the Roy College of Surgeons in Ireland. When the Pharmacy A (Ireland), 1875, was passed, he was one of those nam in Section 5 as the members of the first Council. A fe years ago his name was removed at his own request, lea ing only that of Mr. William Hayes, Ph.C. (who has sin died), in the list of original members. Dr. Reynolds discovery of a new group of colloid bodies containin mercury was announced in 1871 to the Royal Society London, of which he was elected a Fellow in 1880, a a Vice-President in 1902. He also interested himself the chemistry of silicon, of which he prepared ne organic and other derivatives. Others of his numero published papers were concerned with spectrum analysi the periodic law, and electro-chemistry. He was th author of "Public Lectures on Experimental Chemistry (1874) and "General Experimental Chemistry" (1880 He served as President of the Society of Chemical Industr in 1891, President of the chemical section of the Britis Association in 1893, and President of the Chemical Societ in 1902-3. He leaves a widow. The funeral took pla at East Sheen Cemetery on February 23.

Swain.—At Derby Road, Kirkdale, Liverpool, recently suddenly, Mr. William Harriman Swain, chemist a druggist, 133 Kirkdale Road. Mr. Swain, who was i business before August 1, 1868, had a pharmacy at Islin ton, Liverpool, for many years. Latterly he had manage a business for Mrs. Carson at Derby Road, where h death occurred while he was at the counter.

Thomas.—At 38 Wallfield Road, Cardiff, on February Mr. Jacob Benyon Thomas, chemist and druggist, age forty-seven.

German Dyes Imported.—The Commission which wa sent to Germany in January to inquire into the stocks o dyes held there has bought 140 tons of German dyes worth over 190,000*l.*, and has made arrangements fo further supplies.

Personalities.

MR. ALFRED THOMAS, 57 Old Town, Clapham, London, W. 4, has been elected Fellow of the Chemical Society.

MR. W. P. NOVELLI JAMES (W. J. Bush & Co., Ltd.), h Grove, London, E. 8, has been re-elected President the Boileau Bowling Club, Barnes, S.W.

WOR. BRO. A. F. CORNISH, chemist and druggist, 43 arlborough Street, Devonport, has been installed as the .M. of the St. John's Lodge, No. 1,247.

MR. G. W. HARRIS, chemist and druggist (Walker & arris, Ltd., chemists, Canterbury), has been elected a ember of the committee of the Canterbury Chamber Trade.

WOR. BRO. D. W. BULL, P.Prov. S.G.D., Essex, uggists' sundriesman, Churchill Road, London, E. 9, s been re-elected for the ninth year as secretary of the ntioch Lodge, No. 3,271.

MR. F. STANLEY CLARKE, Ph.C., who for many years s been on the staff of Burroughs Wellcome & Co., has en appointed pharmacist to William Browning Co., Ltd., lbert Works, London, N.W.

M. PIERRE DHUMEZ (Pierre Dhumez & Co., late Vimard, humez & Monschein, Vallauris, manufacturers of terial for perfumery) will be in London in the third ek in March. He is at present in charge of his firm's nd at the Lyons Fair.

MR. H. MILNER BLACK, Ph.C., 81 St. James's Street, righton, is the prospective Labour candidate for the wes division at the next Parliamentary election. Mr. ack has been a member of the Brighton town council r many years, and is the present chairman of the Edu- tion Committee.

MR. FRANK E. BURDETT, chemist and druggist, who s been elected President of the Bradford and District Pharmacists' Association at the age of thirty-three, is a native of Wakefield. He was educated at the Grammar school of his native city, and served his apprenticeship with Chaplin & Son, 60 Westgate. He studied at the Leeds College of Pharmacy, winning the Bowman Prize, and on qualifying in 1907 joined the staff of M. Rogerson & Son, Ltd., Darley Street, Bradford—a business which was established in 1834. In 1909 he joined the directorate of the company, and in 1917 he became anaging director. Mr. Burdett was secretary of the radford Pharmacists' Association for four years, and as a member of the Bradford Pharmaceutical Com- ittee from 1913 to June 1919, when his company came ff the panel. He is a member of the council of the radford Chamber of Trade, a Freemason, and a golfer.



MR. F. E. BURDETT.

REGARDING the award of the Perkin Medal to Dr. harles F. Chandler, to which reference was made in the *. & D.*, February 14, p. 57, further interesting details f the presentation are to hand. Dr. M. T. Bogert, who elivered the presentation address, gave the following ccount of the pharmaceutical activities of Dr. Chandler:

Another New York institution which owes largely to him s present proud position is the N.Y. College of Pharmacy. uring its early years it had led a rather precarious exist- nce, and in 1866 Professor Peter W. Bedford, of its faculty, ought Dr. Chandler's assistance in the development of its ork. It is typical of the man that, in determining upon is answer, the only question he asked himself was whether r not it was to the interest of the community that he ndertake it. It did not occur to him to inquire, "What s there in it for me?" He said to himself, to quote his wn words, "We must have apothecaries; we can't live ithout them, and they must be educated, for our lives are n their hands." He therefore accepted the invitation and lectured three evenings a week throughout the winter, year after year, until some of these lectures could be transferred to new members of the staff. At first he received $400, and provided apparatus and lecture material himself. The faculty then was composed of Professors Mayer, Bedford, and Chandler. By 1878 the College had outgrown its one room in New York University, so it purchased and remodelled the old Morton Memorial Church at 209-211 East 25rd Street. In these more commodious quarters the College grew so rapidly that in 1892 it purchased the plot at 115-119 West 68th Street and erected thereon the fine modern fireproof structure which still stands as an enduring monument to the untiring, zealous efforts of Dr. Chandler and his associates, trustees and faculty, and to the loyal support of the druggists of this city. For many years Dr. Chandler served not only as a member of the faculty, but also as Vice-President and finally as President, which latter position he was occupying when he received a letter from President Butler, in 1905, inviting the College of Pharmacy to become affiliated with Columbia University. This invitation was accepted by the College, and it has since been the School of Pharmacy of Columbia University. Thus was justified the faith of those who in the days of small things laboured so faithfully and self-sacrificingly. That work of this kind is not without rewards which far transcend any financial remuneration is strikingly illustrated by the remarks of Dr. Chandler at a banquet tendered him by the officers, trustees, faculty, and alumni of the College upon his retirement from active duty in 1910:

"Wherever I see the green and red lights of the apothecary in New York there I know I have a friend. I never go into a drug-store but that someone comes up and tells me he was of the class of such and such a date, or is possibly a student still. Sometimes they are boys but newly matriculated at college. Sometimes they are old grey-haired men whose stooping shoulders and faltering footsteps make them seem older than I myself; always they are friends. This has been my highest reward, this has been my most cherished compensation. The feeling that I may have helped in the upbuilding of the institution, have aided in the formation of the characters of the rising generation of pharmacists, and that this help has brought me the friendship of my students, is a source of pride, and will remain a source of pleasure so long as I live."

Cinchona in India.

ONE of the many departments which have experienced strain due to the war years is the Government cinchona plantations and factory in Bengal, of which the annual report for the year 1918-19 has just been issued. Fortunately, when war broke out, the accumulated quinine reserve, acquired at very low cost, stood at over 163,000 lb., yet it was necessary to supplement these resources, which were insufficient to meet an indefinite strain. Neither bark nor quinine could be bought, so that an otherwise undesirable expedient had to be adopted in the cutting out of immature acreages to increase the immediate plantation harvest. In the event the sacrifice of bark increment was profitable enough, because the price of such quinine as could be obtained in the market ranged from Rs. 28 to Rs. 60 or more per lb., against Rs. 7, the cost of manufacture from plantation bark. On the other hand, another result of the premature cutting out of the bark is shown in the fact that 2,270 of the 2,600 acres under cinchona are below the comparatively young age of seven years.

It should, however, be possible to allow these acreages to gain a normal amount of bark increment by restricting the harvest of "thinning" for the next few years, as the demand for quinine may be expected to fall, while given outside supplies of bark, together with a harvest normal as to the ages of the plantation's acreage, the supply should satisfy the factory's requirements. In 1918 the shortage of quinine was sufficiently severe, in spite of the sacrifice of bark increment, to cause Government to buy 49,000 lb. of quinine when the export of that drug from Java was resumed at a cost of almost exactly Rs. 13 lakhs, which, being considered for accountancy purposes as coming within the Department's scope, and already debited to an extent of Rs. 8,89,486.9.0 against the Department, are a very large factor in the total expenditure of Rs. 11,78,238.5.1. The gross receipts were Rs. 15,11,724.10.10

Trade Notes.

Creme et Poudre De Luzy.—W. H. Calnan & Co., 30-32 Ludgate Hill, London, E.C. 4, have taken over the British agency for these Parisian toilet articles.

Palmolive Preparations.—The revised price-list of the Palmolive preparations is inserted in this number, with a statement regarding the special terms on quantities.

Keenolia Hair Cream, the product of the Ormside Chemical Co., Ltd., 57 Poland Street, London, W. 1, sells at 1*s.* 3*d.* and 2*s.*, and shows 50 per cent. profit on sale.

Nujol.—The protected retail prices of Nujol are 3*s.* and 6*s.*, not as quoted in the advertisement in this issue of the Anglo-American Oil Co., Ltd., 36 Queen Anne's Gate, London, S.W. 1.

Photographic Plates.—The price of photographic plates has been advanced by 6*d.* per dozen for quarter-plates. The price, which is now 3*s.* 6*d.*, was reduced to 3*s.* on March 11, 1919.

Razor Prices.—The new prices of the "Valet" autostrop and the "7 o'clock" safety-razors, which came in force on February 23, are given in the advertisement of the Autostrop Safety-razor Co., Ltd.

Poudre de Riz de Java.—The revised prices of Poudre de Riz de Java are given in the advertisement of A. Bourjois et Cie., Ltd., 66 Carter Lane, London, E.C. 4. The protected retail prices have been increased to 1*s.* 2*d.* and 1*s.* 6*d.* per box.

Sapon Cereal Soap, which is attracting considerable attention on account of its novelty and utility, is the subject of the announcement of Sapon Soaps, Ltd., London Bridge, London, E.C. 4. The company prefer to sell their product through the trade instead of direct to the public.

Kutnow's Powder.—On March 1 the retail price of Kutnow's powder will be 3*s.* 6*d.*, in place of the pre-war price of 2*s.* 9*d.* S. Kutnow & Co., Ltd., 41 Farringdon Road, London, E.C. 1, offer to send, post free, new labels for affixing to any Kutnow's powder bearing the former price.

Lindol Dental Cream and Powder.—The selling agents of these toilet preparations for the Provinces and Ireland and for export are Pattinson & Mackie, Ltd., Albion House, 59 New Oxford Street, London, W.C. 1. The wholesale and retail prices are given in this issue, with a statement of the profit yielded on the outlay.

Eucryl.—A reproduction of the Eucryl dentifrice advertisement which is appearing in the "Daily Mail" this week is given in the announcement in this issue of Eucryl, Ltd., 138 Borough High Street, Southwark, London, S.E. 1. The company has also sent us one of the new showcards, which emphasises the slogan "Eucryl makes teeth like pearls."

Bismuthated Magnesia.—The Red Band Chemical Co., Richmond Terrace, Dalry Road, Edinburgh, offer to send a free set of samples of the Red Band bismuthated magnesia and also make a window-display offer of 7½ per cent. discount on a purchase to the value of 3*l.* 19*s.* The company are glad to send show-bills and cards, while with each gross of either size (4½*d.* and 7½*d.*) of bismuthated magnesia a bonus of one dozen is added.

Wood-distillation Products.—Mr. T. Stromwall, 40-42 Queen Victoria Street, London, E.C. 4, has issued a pamphlet giving particulars of the wood-distillation products manufactured by the Association of Swedish Wood Distillers, Stockholm, whom he represents in this country. The yearly approximate output of the Association is 10,000 tons wood tar, 1,000 tons turpentine, 800 tons wood spirit, and 2,000 tons acetate of lime. The pamphlet gives concise particulars of the preparation of these products, physical constants, methods of packing, etc.

Sedrobrol.—When the Hoffmann-La Roche Chemical Works, Ltd., 7 and 8 Idol Lane, London, E.C. 3, introduced Sedrobrol—a bouillon form of administering sodium bromide—we explained (*C. & D.*, March 20, 1915) that the combination was administered in epilepsy and possessed the advantage over plain sodium bromide in being better tolerated when given over long periods. The company now send us another sample of Sedrobrol to emphasise the fact that recently a new packing has been adopted. The tin container, fastened with a leaden seal, holds ten tablets, and is packed in a cardboard outer. Full directions for using the tablets are enclosed.

Bankruptcy Report.

Re G. E. Newton & Co. (George Edward Newton trading as), 74 Great Tower Street, London, E.C., chemical merchants and exporters. This debtor attended before Mr. Registrar Francke at the London Bankruptcy Court on February 20 in relation to his public examination. A statement of affairs has now been lodged showing total liabilities 6,793*l.* (unsecured 2,030*l.*), and assets valued at 17*l.* 17*s.* 9*d.* The failure is attributed by the debtor to loss of business through shipping restrictions, Government control of chemicals, and stagnation following the Armistice. Mr. D. Williams, official receiver, reported that further time was required for investigation of the accounts, and the sitting was adjourned till March 26.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first hand suppliers of the undermentioned articles will be appreciated.

197/69. Orchards' cure for deafness
198/31. Dr. Wild's syringe
192/3. "Asplinto" embrocation
193/58. Dr. Salp's hair-restorer
193/55. "Dermol" toilet paper
193/57. "Sozodont"; agents
193/32. Hitchcock's head and stomach pills
187/54. Wigmore Laboratory's specialties
196/16. "Rodney" body belt
196/53. Gillett's lye (for soap making)
196/72. Clement's cornflour
195/42. "Mecca" ointment
195/31. "American" washing soda crystals
195/37. Liq. pectoralis benzoicum
198/45. "Buena" hair tonic
198/62. Celloidin (chips), supplies.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

Absolom's tea, 187/26
"Amami" nail-polishing stone, 184/3
Bone fittings for soothers, 174/43
Boric acid (French inquiry), 175/45
"Bristol" sarsaparilla, 183/57
"Bromurea" tablets, 175/70
Bronchitis kettles, 173/59
Brown's bronchial troches, 171/2
Cachet apparatus, 180/8
"Calox" tooth-powder, 184/3
Cash registers (Dutch inquiry), 170/37
Cavania's pills, 169/5
"Cedar of Lebanon" sachets, 173/4
Chinosol, 178/17
Citric acid, 172/55
Dunn's black oil, 172/5
"Duplex" tablet machine, 161/38
Electrargol, 181/17
Electrical apparatus for laboratory work, 162/54
Epsom salts (Indian inquiry), 6/33
Fir-tree oil, 178/28
"Frosa," 182/31
Felt chest protectors, 174/17
Fenning's fever cure, 175/67
Filling machinery, 170/14
"Germinol," 163/32
Gessler's magic pastilles, 170/3
"Gets It" corn cure, 170/74
Huskisson's iodine, 175/71
Ichthalbin tablets, 161/8
Iodovasogen (Pearson) (French inquiry), 167/254
Janet Moore's toilet preparations, 182/35
"Jif" headache powders, 171/17
Kolynos tooth-paste, 173/30
"Lactagol" (French inquiry), 173/9
Lanoline, 166/47
"Lavene," 178/28
Menthol cone cases (French makers), 163/5
Morison's pills, 166/22
Muriatic acid, 158/3
"Nyal" mountain herb, 171/17
Oatine cream (French inquiry), 167/250
"Octopus" suspensory bandage, 174/47
Packeting machinery, 177/28
"Pamala" (French inquiry), 167/251
"Panremo" jelly, 162/5
"Paragon" brand sterilised dressings, 159/57
"Reguloids," 176/4
Reuter's soap, 182/32
Rice's pneumatic truss, 174/36
Sands' liver seeds, 174/47
Sanitol, 181/1
Thepeniers' Bulgarine tablets, 168/64
Valentine's walnut stain, 145/7
Weighing-machinery (African inquiry), 173/49
Woods' great peppermint cure,
Wright's Indian vegetable pills, 156/2

Observations and Reflections.

By Xrayser II.

Tribunal after Tribunal

is either resigning or suspending its operations on the ground of the futility of the Profiteering Act. In my own neighbourhood the suspension is ostensibly on account of the new Regulations, which, it is alleged, make the Act more of a farce than ever. To me they seem a great improvement, and I conclude that what was desired by this Tribunal was greater rather than less stringency in the administration of the Act. Meanwhile the work goes on gaily in most places: Bermondsey, for instance, seems to be having "a high old time" of it, with the result that what is an occasion of prosecution in one district is allowed to go unchecked in another, an inequality that would be ludicrous if it were not so grossly unjust. Recent revelations have made it abundantly evident that the alleged profiteering of the retailer is due to circumstances over which he has no control, of which, indeed, he is as much the victim as is the consumer he supplies. It is only because these two are in immediate contact with each other that the latter visits his anger upon the shopkeeper with whom he deals, not having imagination enough to realise the facts behind. The Government, however, must by this time be aware that it has taken up this matter by the wrong end, has (in medical language) attacked the symptom instead of the disease, or, like Mr. Winkle on a famous occasion, made a "terrific onslaught" on the first small boy that came in his way instead of tackling the real disturbers of the peace. The Act itself is little if anything more than so much "eyewash," intended to placate the public and direct attention from offenders the Government is afraid to meddle with. This is the way with most Governments; they strain at gnats and swallow camels: but never perhaps had we a Government that gave more colour to Lord Beaconsfield's saying that all Governments are "organised hypocrisies." I am bound to add that, judging from electioneering addresses from men of every political colour, one party is as bad as another in the particular matter of which I am speaking.

Mr. W. Marshall Freeman,

the chairman of the Complaints Tribunal of the Central Profiteering Committee, has sound views on vinegar, but his remarks on the subject would have been more appropriate in a case of complaint under the Sale of Food and Drugs Acts, and to say that "in the brewing of malt vinegar it happens necessarily that a certain amount of acetic acid is produced" is to express a familiar fact somewhat quaintly. That, however, does not matter. It is none the less desirable that a legal definition of the term "vinegar," and an authoritative standard of strength, should be arrived at. There can be no difficulty in distinguishing between malt and wood vinegar, however the latter may be disguised, and the selling of the one for the other ought not to be allowed. Another of Mr. Freeman's *dicta* I commend to those among us who object to an independent Chemists' Association. Through such an Association (he said) any tradesman can make a complaint to his Tribunal of profiteering by a wholesaler. But how is it with tradesmen who, like us, have no such Association?

Messrs. Leath & Ross

contend that the great increase in the number of open and avowed homœopathic practitioners in America is a proof that homœopathy has advanced in public favour in England. I say that it proves nothing of the kind, that for such proof we must have similar evidence here; and then they call me illogical. My remark upon the spread of self-medication in America, of course, proves nothing, nor was it meant to do so; it was put forward as an argument as good as theirs. In this connection, however, your correspondent "Medicus" contributes a pertinent remark: he asks how the extreme dilutions of homœopathy act, and thinks he knows, but does anybody else? I have heard homœopathic doctors confess that they did not, and, since it is these extreme dilutions that the public mostly dabble in, there may be some slight relevance in my reference to self-medication in America. "Medicus," by the way, says that once a patient has benefited from homœopathic treatment he never willingly reverts to allopathy. This is quite contrary to my own observation.

The Question of Medical Ethics,

which I submitted the other week, has entered upon a new stage. The doctor, it may be remembered, refused to part with the prescription written in pursuance of the treatment recommended by the specialist until the patient had paid him a guinea for it. The prescription, when presented to a leading firm of chemists in the City, was found to contain as its principal ingredient an unknown preparation, apparently a proprietary. The doctor, when applied to, refused to say whose preparation it was or where it could be procured, on the ground that his patient was being supplied with the medicine by himself, which was only true because it could not be got elsewhere. He added that the disclosure of the facts asked for would be useless, as the preparation was a very expensive one, and no chemist would procure it unless guaranteed that he should be no loser by doing so. He himself had supplied the medicine at 2*s.* 6*d.* per bottle. Meantime he keeps the guinea paid for the prescription, and forces his patient to get the stuff from him as before or go without it. This is one of those who make such a fuss about "infamous conduct."

Moses

undoubtedly laid down many sound sanitary laws, but to say that medicine rests upon him is to go beyond the truth, and I should like chapter and verse for the prohibitions by him of the use of milk as a beverage. A search through the so-called Books of Moses, aided by Cruden's Concordance, has failed to find them, and certainly they do not appear in the chapters dealing with diet in Leviticus and Deuteronomy. Has Dr. Cantlie confused Moses with some other Jewish writer? In the same lecture he refers to the "golden rats" of I. Samuel 6 as evidence that the Jews associated rats with plague infection, but both in our Authorised and in our Revised Versions these appear as "golden mice." Possibly this is a misunderstanding of the original; rats and mice are in some languages called by the same name. Be this as it may, I should like to know more about the milk question.

Mr. Wilfrid Blunt,

in Part 2 of "My Diaries" (which has just been published), gives further details (some of which have not been published before) of the last days of the poet Francis Thompson. As stated in the former volume, it was through his acquaintance with a chemist that Thompson was found by the Meynells, and by them rescued from the state of misery and destitution into which he had fallen. He was then being "slowly poisoned by laudanum." The doctor consulted declared his condition to be hopeless, and that to stop the use of the drug suddenly would kill him at once. In this the doctor was mistaken, for, as a matter of fact, Thompson, after some six weeks in hospital, was discharged "practically cured." Whether he was deprived altogether of the drug when in the hospital is not stated, but sudden deprivation does not necessarily have fatal results even in "hopeless" cases. I remember one in which the victim's husband, despairing of any other cure, stopped the supply of the drug without warning, and kept his wife locked in her chamber until the habit was completely broken. Her consumption of laudanum had for years been enormous, but although she suffered horribly while the cure was being effected, she did not die, nor did she, to my knowledge, ever resume the habit. It was otherwise with poor Thompson, who, a few weeks before his death, was, says Mr. Blunt, drinking six ounces of laudanum daily. This is nearly three times the amount De Quincey professes to have allowed himself, and to have taken without serious injury to his health.

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An announcement of particular interest to you appears in this issue on page 63.

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Editorial Articles.

The Coming Storm.

The announcement of the names of the retiring members of the Council of the Pharmaceutical Society of Great Britain has raised again the question of the responsibility of six of these councillors for the tactics which resulted in the adoption of the by-law admitting apothecaries' assistants without examination to the Register of Chemists and Druggists. The Council had apparently hoped that the old controversy had been forgotten, as the hint had been given to official speakers touring the country to claim that the Council rather welcomed the criticism that was aroused last year. Although the election does not take place until May, it is not too soon to commence the campaign, which should have for its object the rejection of the six members who formed part of the majority on the Council that pushed the unjust by-law through. We see that the assistants are already choosing candidates; and, if care is taken to select one or two representative men, there is no reason why the efforts should not be successful. It has been customary in official circles to represent that the number of non-proprietor members of the Pharmaceutical Society is negligible. There are, however, several hundred managers and others whose subscriptions to the Society are paid by one well-known limited company, and there are other independent subscribers who will, it is estimated, make an aggregate of about two thousand members. Thus a respectable number could be polled for an assistant if his compeers would unite in supporting the candidature. We hear also that hospital pharmacists are contemplating putting forth a candidate. It remains for chemists in business to choose and support candidates who will represent them on the Council and carry out some of the reforms that have been indicated in the *C. & D.* from time to time. United effort is needed, which might take the form of a League of Loyal Members whose object should be to promote the election of councillors pledged to prevent the surrender of the rights of registered chemists. We have been asked whether it is not ungenerous to suggest that the six retiring members should be unseated. Our reply is that justice demands it as a lesson for future councillors, and also that the new era needs fresh minds to help in tackling the pharmaceutical problems of the future. There will be more than sufficient of the old leaven left on the Council. Any success this year in electing new men will encourage renewed efforts next year to obtain a progressive majority on the Council. In turning over the new Register of Chemists and Druggists we notice the inclusion of a chemist who has been registered under Section 4 of the Poisons and Pharmacy Act, 1908, through the reciprocity arrangement with New South Wales. He, being a chemist qualified by well-conducted pharmaceutical examinations, cannot seriously be objected to; but, when a few hundred apothecaries' assistants, not necessarily with any shop experience, are registered as chemists and druggists, without examination, it will be as well to bear in mind that six of the councillors who retire in May, and who will probably seek re-election, pride themselves in having secured this result against the distinctly expressed wish of the majority of the members. Since the above was written we hear that one of the retiring councillors has decided not to seek re-election. The reason given by Mr. A. H. Jenkin for this step is that he has agreed to act as the complainant in the legal case against the Pharmaceutical Society which is to test the Society's powers to spend its funds for trade purposes.

Pricing Prescriptions.

THE introduction under the National Health Insurance scheme of the principle of charging separately for ingredients, *plus* the compounding fee, has revolutionised the old system of charging a flat rate for dispensing. The low cost of drugs in former days made the flat rate advisable, otherwise there would have been some absurdly low charges for dispensing scarcely commensurate with the skill and knowledge required in compounding. The agitation of the London Panel Committee over the 1913-1915 tariffs resulted in a cost-price tariff being foisted on chemists, greatly to their detriment. The change necessitated a pricing chart, which was issued to chemists with their original tariff. This was carried to the second-place decimal, and the recent concession on this point made necessary some adjustment. The introduction of a costing system in pricing prescriptions makes it necessary to have a simplified chart. The one printed on p. 92 is adapted for ordinary dispensing-charges, and gives the price to the nearest first-place decimal upwards. The chart, which has been compiled by Mr. Herbert Skinner, Ph.C., on the basis of the Insurance Pricing Chart, will simplify the process of ascertaining costs or, better, the dispensing prices as sales, as suggested at various London Associations. The prices given in the London Price List, for example, allow for specific gravity, profit, and establishment charges, so that all that is necessary is to ascertain the list price, refer to the chart, and arrange to the nearest penny upwards. To this should be added the compounding fee for the particular form of medicament. The pound price is stated in pence, giving only the figures where 0.5 or whole numbers arise in the ounce price. The figures beyond 100 in the pound column are increments of one penny in the ounce column up to one shilling per ounce. Thus, if the price is per lb., the cost or sale for any amount can be ascertained on the horizontal line for that figure. Similarly, the price per ounce, fluid or by weight, or any portion thereof, can readily be seen. The cost or sale price per drachm can be ascertained up to a certain limit, but it was not possible to go beyond this without unduly extending the chart. The cost or sale price per grain is a rarer thing, and in the majority of cases is easily governed by the nearest penny upwards. Though the chart is designed primarily for dispensing charges, it will be found very useful for ordinary sales for quantities other than those stated in the price-lists; but it is obvious that its full value is only obtainable where there is a uniform system of cost and profit throughout, and applies most effectually to a costing system.

"C. & D." Subscription Raised.

THE annual subscription of THE CHEMIST AND DRUGGIST will be 20*s.* in future. The increase is necessitated by the very heavy advances in the charges for printing.

Shop and Office Rent.

A GOOD deal of dissatisfaction is being caused by the action of some landlords in giving notice of large increases in the rent of lock-up shops and offices. The increases are in some cases so large as to show that advantage is being taken of the non-inclusion of this class of premises in the various rent-restriction Acts. In some large cities steps are being taken to bring the question before the Government, with a view to the establishment of Fair Rent Courts, to which either the owner or tenant could appeal. The matter interests many chemists, if we may judge from the inquiries which we receive each week.

Unpaid Grants.

THERE is considerable slackness in the Government Department that has to do with the paying of students' maintenance grants. As is well known, there are many students who depend entirely upon the grants for the payment of their board and lodging during the time they are at schools of pharmacy. We have received some particulars from Manchester, which show a greater slackness than is usual in Government offices. In one case the maintenance allowance for December-January, due February 6, has not yet been paid. There are cases in which students have only received one monthly payment since October last, and at least one case where no payment has been made, although the student has been informed that he would receive a grant. We advise students who are thus being inconvenienced by the dilatory methods of local officials to write to the London office; or, better still, get in touch with the local members of Parliament.

Tea-seed Oil as an Adulterant.

TEA-SEED and olive oil are so practically identical in chemical and physical characters that their flavour must be regarded as the principal difference between them. Milliau, the French chemist, has published a report on the question, but this does not appear to us to be of any particular assistance in regard to the detection of the adulterant. As he states, the similarity in the character of the two oils, the progress made in rectifying crude oils, and the high price of olive oil have caused adulteration with tea-seed oil to assume large dimensions. He gives, in a table, the character of pure olive oil, tea-seed oil, and a mixture of 90 per cent. of olive oil and 10 per cent. of tea-seed oil, but they are of little value, as they merely represent figures obtained with two particular oils, whereas, in fact, the limit figures almost completely overlap for the oils up to the present examined. He claims, however, that three of the tests give characteristic indications, a conclusion with which we can scarcely agree. For example, the action of nitrous vapours causes olive oil to "solidify" but not tea-seed oil, although the mixture does solidify. Now the action of nitrous vapours varies so much according to the exact conditions, and with different samples of pure oils that, even if a chemist could distinguish between a given olive oil (pure) and a mixture of that same oil mixed with some tea-seed oil, he would not be able to do so with an unknown sample without the opportunity of examining the pure olive oil used in making the mixture. His figure "titre de nc. qr." is a mystery, and we do not understand it. He gives 23 for olive oil and 17 for tea-seed oil. But if this has anything to do with the fatty acids (*ac.* qr.) it is so variable in both oils as to be useless as an analytical figure. This is apparently what Milliau means, as later on he claims that with 50-per-cent. mixtures the amount of fatty acids is characteristic, but he obviously refers only to a mixture of two samples with known values, as he remarks also that it is not of much interest, as the amount of fatty acids in olive oil is "not invariable." He claims that with 10 to 20 per cent. of tea-seed oil the nitrous vapours give an indication as the mass remains quite liquid. He also claims that the colour reaction of Cailletet (sulphuric and nitric acid) is really characteristic, giving a straw colour with olive oil, a coffee colour with tea-seed oil, and a maroon with mixtures. We fear that with the highly purified tea-seed oils now being made, this contribution to the question will not be of much assistance to the analyst, especially in the case of careful adulteration with small quantities of tea-seed oil.

IT IS REPORTED from Sierra Leone that a new export duty of 3*d.* per lb. has been imposed on gum copal.

"A ROSE BY ANY OTHER NAME."—"When the question of the importation of potash from Germany came up in the House of Commons a day or two ago, Sir Richard Cooper called the chemical 'Pot-ash'; Sir Auckland Geddes spoke of it as 'Po-tash.' One spoke as the manufacturer, the other as the professor; each mentioned the word more than once and each stuck to his own pronunciation. The House tittered. . . ."—*The Morning Post.*

Prescription Pricing Chart.

Adapted by Herbert Skinner, Ph.C., from the National Insurance Dispensing Chart.

Prices in Pence for Grains or Minims to nearest first-place decimal upward.

Pence per lb.	℥j.	1 oz.	℥vij.	℥vj.	℥v.	℥iv.	℥iij.	℥ij.	℥iss.	℥j.	℥ss.	℈j.	℈ss.	—
	480 grains	437·5 grains	420 grains	360 grains	300 grains	240 grains	180 grains	120 grains	90 grains	60 grains	30 grains	20 grains	10 grains	5 grain
5	0·4	0·4	0·3	0·3	0·3	0·3	0·2	0·2	0·1	0·1	0·1	0·1	0·1	0·1
10	0·7	0·7	0·6	0·5	0·5	0·4	0·3	0·2	0·2	0·1	0 1	0·1	0·1	0·1
15	1·1	1·0	0·9	0·8	0·7	0·5	0·4	0·3	0·2	0·2	0·1	0·1	0·1	0·1
16	1·1	1·0	1·0	0·9	0·7	0·5	0·4	0·3	0·2	0·2	0·1	0·1	0·1	0·1
20	1·4	1·3	1·2	1·1	0·9	0·7	0·5	0·4	0·3	0·2	0·2	0·1	0·1	0·1
30	2·1	1·9	1·8	1·6	1·3	1·1	0·8	0·5	0·4	0·3	0·2	0·1	0·1	0·1
32	2·2	2·0	2·0	1·7	1·4	1·1	0·9	0·6	0·5	0·3	0·2	0·1	0·1	0·1
40	2·8	2·5	2·4	2·1	1·8	1·4	1·1	0·7	0·6	0·4	0·2	0·2	0·1	0·1
45	3·1	2·9	2·7	2·4	2·0	1·6	1·2	0·9	0·7	0·5	0·3	0·2	0·1	0·1
48	3·3	3·0	2·9	2·5	2·1	1·7	1·3	0·9	0·7	0·5	0·3	0·2	0·1	0·1
50	3·5	3·2	3·0	2·6	2·2	1·8	1·3	0·9	0·7	0·5	0·3	0·2	0·1	0·1
55	3·8	3·5	3·3	2·9	2·4	1·9	1·4	1·0	0·8	0·5	0·3	0·2	0·1	0·1
60	4·2	3·8	3·6	3·1	2·6	2·1	1·6	1·1	0·8	0·5	0·3	0·2	0·1	0·1
64	4·4	4·0	3·9	3·3	2·8	2·2	1·7	1·1	0·9	0·6	0·3	0·2	0·1	0·1
65	4·5	4·1	3·9	3·5	2·8	2·4	1·7	1·2	0·9	0·6	0·3	0·2	0·1	0·1
70	4·9	4·4	4·2	3·7	3·0	2·5	1·8	1·2	0·9	0·6	0·3	0·2	0·1	0·1
75	5·2	4·7	4·5	3·9	3·3	2·6	2·0	1·3	1·0	0·7	0·4	0·3	0·2	0·1
80	5·5	5·0	4·8	4·2	3·5	2·8	2·1	1·4	1·1	0·7	0·4	0·3	0·2	0·1
85	5·9	5·5	5·1	4·4	3·7	2·9	2·2	1·5	1·1	0·8	0·4	0·3	0·2	0·1
90	6·2	5·7	5·4	4·7	3·9	3·1	2·4	1·6	1·2	0·8	0·4	0·3	0·2	0·1
95	6·6	6·0	5·7	4·9	4·1	3·3	2·5	1·7	1·3	0·9	0·4	0·3	0·2	0·1
96	6·6	6·0	5·7	5·0	4·2	3·3	2·5	1·7	1·3	0·9	0·5	0·3	0·2	0·1
100	6·9	6·4	6·0	5·2	4·3	3·5	2·6	1·7	1·3	1·0	0·5	0·3	0·2	0·1
112	7·7	7·0	6·8	5·8	4·8	3·9	2·9	2·0	1·5	1·0	0·5	0·4	0·2	0·1
128	8·8	8·0	7·7	6·6	5·9	4·5	3·3	2·2	1·7	1·2	0·6	0·4	0·2	0·1
144	10·0	9·0	8·7	7·5	6·2	5·1	3·8	2·5	1·9	1·4	0·7	0·5	0·3	0·2
160	11·1	10·0	9·6	8·3	6·9	5·6	4·2	2·8	2·1	1·5	0·8	0·5	0·3	0·2
176	12·2	11·0	10·6	9·1	7·6	6·1	4·6	3·0	2·3	1·7	0·9	0·6	0·4	0·2
192	13·2	12·0	11·6	9·9	8·3	6·6	4·9	3·3	2·5	1·7	0·9	0·6	0·4	0·2

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Pharmaceutical Society of Great Britain.

North British Branch.

An evening meeting of the North British branch of the Pharmaceutical Society was held at 36 York Place, Edinburgh, on February 18, Mr. James Jack, Ph.C., F.L.S., F.P., in the chair. The first communication was on

Opium Assay from the International Standpoint.

By D. B. Dott, F.R.S.E.

The majority of Pharmacopœias has adopted some modification of the lime process for the assay of opium and its preparations, but the modifications differ considerably in detail and yield distinctly different results. A survey of the various methods, especially of the British, French, and Japanese, might lead to a modification which would be generally acceptable. The British form of the process is probably on the whole the best. It possesses one unique feature, in the correction for loss in filtrate, which ought to be adopted by the others. Mr. Dott then proceeded to give a careful criticism of the processes in the British and Japanese Pharmacopœias, the French Codex, the Belgian and Spanish Pharmacopœias, pointing out the defects and advantages of each. With regard to the temperature at which the morphine is dried, the speaker said: It is surprising that the French and Belgian authorities dry the morphine at 100°, the Japanese at 96°-100°, and the Spanish at a temperature not exceeding 95°. It is a long time since I called attention to this matter. "At 100°" is very generally taken to mean at the highest water-bath temperature. The lower figures obviously refer to drying in a water-oven. At a temperature slightly under 100° precipitated morphine slowly loses its water of hydration. It is just the temperature at which it ought not to be dried, if the percentage is to be determined by weight. When it is intended to weigh the morphine as hydrate, it should be dried at 60°-70°. If it is to be weighed as anhydrous, it should be dried at 110°-120°. Of course, when the percentage is to be decided by titration, the temperature of drying is of little consequence. Although the difference between 1 and 0.94 is not very great, it is evident that the international standard should apply definitely either to the hydrated or to the anhydrous alkaloid. With regard to the elaborate process of the U.S.P., Mr. Dott does not believe that the process is practically equal to that of the British authority because of its manner of extraction and precipitation by lime in concentrated solution. To ensure uniformity of strength in the opium preparations, a standard international method of assay should be adopted, and in Mr. Dott's opinion the process of the British Pharmacopœia, with suitable amendments, will be found the most convenient and satisfactory.

Discussion.

Mr. Rutherford Hill said: Under the League of Nations it was natural to consider on what matters the nations could agree, and surely the setting up of uniform standards for medicinal preparations was one from which any element of controversy was entirely absent. Very probably the framing of an international Pharmacopœia would lead to simplification on lines advocated by such pharmacologists as Professor Cushny. With regard to standardisation, an assay process which resulted in weighing the final substance eliminated the personal equation and was more easily carried out; but it necessitated that the morphine must be pure, and that presented a difficulty which was met by the titration process. The latter introduced the personal equation, and especially in alkaloidal titrations skill and experience were necessary to reach concordant results.

Mr. Rowland said on a recent occasion a wholesale house which had run short of tincture of opium borrowed from a neighbouring wholesale house. The borrowers found they could not get 1 per cent. of alkaloid by the B.P. process. On inquiry they learned that the wholesale house from which the tincture was obtained had standardised it by another method than the B.P.

Mr. Dott, in reply, said opium assaying is perhaps the one which most required experience and practice. That the morphine hydrate obtained in the B.P. method is substantially pure may be seen by examining the precipitate under the microscope. When the precipitate is dissolved in spirit the insoluble part is not of large amount, and neutralises a very small proportion of standard acid. It might be possible by some simple operation to get rid of the small error caused by the combined effect of the spirit and ether. It was more accurate to weigh than to measure, but to state the percentage of alkaloid in a tincture by weight as 1 per cent., while the B.P. and others give it in W/V, was not at all desirable.

The next communication was on

A Quick Method of Preparing the Official Grey Powder.

By Peter Boa, Ph.C.

In the Chemist and Druggist, April 5, 1919, there appeared, under the heading "Miscellaneous Inquiries," a reply to a correspondent, A. H. (Tantah), in reference to the preparation of hydrargyrum cum creta, as follows:

Your device of employing ether in the manufacture of hydrargyrum cum creta is, so far as we are aware, original. It certainly answers admirably, although the product is almost too perfect, the colour being nearer slate than grey. We note that you added the ether with the idea of hardening the mercury through the cold developed on the evaporation of the ether. In our experiment the mercury did not become hard, only more compact. The temperature at which we were working was 40° F., so that the ether would not evaporate so rapidly as in your warmer climate, and the cold produced would not be so great.

The device interested me, and I tried it in various modifications to ascertain its possibilities. The results are so satisfactory, and the speed and convenience of the process so great, that it seemed to me worthy of more extended adoption. After describing several other expedients to hasten the "extinction" of the mercury, Mr. Boa said the simple method described greatly reduces the time and labour required to produce a grey powder in accord with official requirements. The mercury is placed in a mortar and a few drops of ether added, evaporation of the greater part being encouraged by fanning with a piece of paper; then the chalk is added, and moderate trituration employed until globules of the metal are no longer visible to the naked eye—time required less than five minutes. It has to be noted that a too free use of ether and trituration will lead to the production of a too fine division of the mercury, and a blue powder will result—and probably an activity different from that of the standard grey powder. The expedient, therefore, has to be used with the discretion pertaining to practitioners of pharmacy. The term "hardening" is no doubt used in a comparative sense, because mercury does not freeze until a much greater degree of cooling has been effected than will be attained in carrying out this device. Mercury shaken in a test-tube with ether is broken up into a bluish-black powder. When cooled in a test-tube by ether spray to −25° C., and placed in a mortar and triturated with chalk, it did not appear to be disintegrated more rapidly than at the ordinary temperature. It appears, therefore, doubtful if the cooling effect of the ether is the chief influence in the process. On the other hand, the ether has mostly evaporated before the chalk is added. In view of the breaking-up effect of ether on mercury when shaken with it, one is induced to suppose that there is some physical adhesion between the mercury and ether.

Discussion.

Mr. Glass said he had found by placing the chalk and mercury in a wide-mouthed bottle, and shaking the bottle vigorously, a beautiful grey powder could be prepared in a few minutes.

Mr. Rowland asked if Mr. Boa's method did not present the mercury in too fine a state of division, so as unduly to increase the activity of the grey powder.

Mr. Wilson said he had recently seen a sample of grey powder, which was, as Mr. Rowland suggested, very blue; and this was returned to the wholesale house as not corresponding to the official character. With regard to trituration in a mortar, he understood that the activity of the powder was to some extent due to oxidation, and the long exposure to the air in the triturating process would have an effect in fixing the activity of the grey powder which might not be attained by the quicker process.

Mr. Duncan said the method of shaking up the chalk and mercury in a bottle could not be done, as Mr. Glass had suggested, in a few minutes. The ether process was by no means new. It was at one time official in the U.S.P., and had apparently been copied from the Dublin Pharmacopœia, in which a mixture of alcohol and ether was used for the "extinction" of the mercury. Apparently, however, there was some risk of the formation of mercuric oxide through hydrogen peroxide, or some other oxidising substance which liberated free iodine from potassium iodide, being present in the ether. Consequently the ether had been replaced by honey.

Mr. Rutherford Hill said he had examined the finished powder by Mr. Boa's process for mercurous and mercuric oxide. The powder corresponded to the official tests of the B.P. as well as of the U.S.P. A very old sample of grey powder similarly treated gave a much more pronounced evidence of the presence of mercuric oxide.

Mr. Jack said he had had experience of a quantity of 2 lb. of metallic mercury which had been used in a technical process connected with *x*-ray work, by which it became converted into a black powder. On squeezing this black powder through chamois leather the mercury was restored to the metallic condition to the extent of something like 1¾ lb., so that it could be used over again in the process. He confirmed Mr. Duncan's reference to the making of grey powder by shaking in a bottle for a prolonged period.

Mr. Boa, in reply, said they would observe that his process was carried through in something like three minutes. The product seemed to be in accordance with the official product. He might say that in one of his experiments he produced a powder which was very much too blue. He got a medical friend to experiment with this powder, and his report was that its effects were much too pronounced. The process suggested by Mr. Glass was mentioned at an evening meeting in London some thirty years ago, but it takes nearer ten hours than the few minutes mentioned by Mr. Glass. The efficiency of the process could be tested by spreading the powder out on a piece of paper by means of a spatula, so as to reveal blue or white streaks indicating incomplete mixing. His method was to place the mercury in the mortar, add a little ether, and allow evaporation to proceed, and, when nearly complete, to add the chalk and rapidly triturate.

The next communication was on

"Some Dispensing Problems."

By A. B. Gilmour.

It is highly important to all the panel chemists in Scotland that the interpretation of doubtful points at the Bureau of the Drug Accounts Committee of Scotland should agree with the interpretation adopted by the chemist, otherwise the result might be prejudicial to the chemist. The problems dealt with have actually arisen in the prescriptions received from the 1,300 chemists' shops in Scotland. Mr. Gilmour first referred to unusual prescriptions received at the bureau, which were for the following:

(1) "Two pounds of ice." (The chemist contended that this was quite a legitimate prescription.) (2) "One pound sugar to carry out dietetic instructions." (3) Brandy; whisky; and syphons of soda-water. (4) A prescription form for ol. morrhuæ was postponed as no quantity was stated. When it came back the pricer could not understand what was intended. It was "ol. morrhuæ 16 oz. cum apologies." The chemist's writing was rather illegible, and it was at first thought he meant "ol. morrhuæ cum creosote." (5) On a form for one dozen powders, the practitioner had signed his own and his deputy's name on the body of the form. The chemist interpreted the signature as a porous belladonna plaster. Having regard to the writing, this was n an unreasonable interpretation. (6) A chemist interpret gossypium, ½ oz., as aspirin, ½ oz., and another chemist the same area for "bandage 3 in., mitte 2," supplied a 3 i bandage and 2 oz. of lint. These orders were very illegibl and the sequel was a circular letter to all the docto in the area, instructing them to write legibly. (7) In th connection Mr. Gilmour read a reply from a doctor regar ing his illegible writing, promising to use a pencil th would leave a better imprint. (8) Two dozen powder Each powder contained:

Phenaz.	10 gr.	Caff. cit.	5 g
Phenac.	5 gr.	Hyd. sub. ...	5 g
Ac. acetylsal. ...	10 gr.	P. jalap. ...	20 g

M.

(9) Six-ounce mixture, containing 2 oz. of bismuth carb. ar 5½ oz. of mucil. trag. (10) This prescription was for:

Bis. carb. ...	60 gr.	Mucil. acac. to	6 oz
Soda bicarb. ...	60 gr.		

(11) A prescription for a 6 oz. tannic acid, iodine, an saccharin mixture. The quantity of saccharin prescribe was 10 drachms. (12) Four oz. of Fowler's Solution, and r directions given. (13) A prescription for:

Potass. iod. ...	20 gr.	Glyc.	½ o
Iod.	10 gr.	Ol. cinnam. to ...	2 o

From inquiry it was evident that the practitioner was co fused about Mandle's paint. (14) A prescription for:

Pot. brom. ...	10 gr.	Syr. aurant. to	2 d
Chloral hyd. ...	10 gr.		

Send 6 oz.

This quantity of flavouring agent (syrup of orange) ccul quite well be classed as luxury prescribing. Mr. Gilmou then asked his audience how them would deal with th following:

(1) Twelve inches of G.P. Tissue. Query. 12 in. sq., c 12 sq. in., or 12 in. by the width of the gutta percha tissue (2) A 3 in. Domette Flannel Bandage. Would they suppl a domette or a flannel bandage? (3) One sq. yd. of whit lint. A chemist supplied lint 2 yds. long, the width bein 18 inches, his idea being that the patient could join th ends together. (4) One square yard of emp. adhesivum. chemist supplied emp. adhesiv., 2 yds. long by 16 in. wid (5) Tr. quinin. ammon., 2 oz.; exsicc. in vacuo ut fia capsulæ; tal. mit. vi. (6) Unguentum pasta lassar. Query Dispense pasta zinci. co., or ung. diachyl. carbol., B.P.C (a synonym for Lassar's ointment)? (7) Ext. hamam. liq is frequently prescribed with instruction, "To be used a directed." It has been surprising how frequently the practi tioners intended liq. hamamel. (8) Pil. cathar. co. Query Dispense pil. cathartic. co. of the U.S.P.? The practitione intended pil. cathartic., which is a synonym for pil. coloc. c (9) Care is required with regard to the B.P.C. preparation of sandalwood oil. There is the (*a*) mist. ol. santali, whic contains 3 per cent. of sandalwood oil; (*b*) mist. santali co. which contains 30 per cent. of sandalwood oil, and whic corresponds to Nisbet's specific; (*c*) liquor santal. co., whic contains 5 per cent. of sandalwood oil, and contains cinna mon, buchu, and cubebs in addition. A question arose wit regard to two prescriptions. The first prescription was fo mist. ol. santali, and the second was for mist. santali co On both occasions the doctor intended mist. ol. santali although he did not order them on the second occasion and that on both occasions the chemist dispensed liquo santali co. You thus have the practitioner ordering on on occasion a preparation which he did not intend to b dispensed, and on both occasions the chemist dispensing different preparation from what the doctor actually pre scribed. (10) Questions have arisen with regard to wha should be dispensed for chlorodyne and tinct. chloroform. e morph. An institution like the Bureau must proceed o clear and definite principles, and be able to defend an justify its actions. For chlorodyne the price is based o chlorodynum, B.P.C. Some chemists still appear to regar chlorodyne as a secret remedy. For tinct. chloroform. e morph. the price is based on the 1885 British Pharmacopœia preparation. Lin. methyl sal. is not lin. methyl sal. co.; lin. capsici is not lin. capsici co.; syr. ferri phosph. is not syr. ferri phosph. co. (11) What should be supplied for 2½ per cent. of iodine in rectified spirit? On several occasions the chemist has noted on the prescription form that he supplied tinct. iodi mit., the strength of which is, of course, 2½ per cent. (12) What should be supplied when tinct. rhei is prescribed, having regard to the fact that tinct. rhei is the official designation of the '85 B.P., and that tinct. rhei co. is the official designation of the 1914 B.P. preparation? It has been found that in some cases at least tinct. rhei co. has been dispensed when tinct. rhei was prescribed. (13) For lin. capsici, tr. capsici, tr. cap sici fort., pulv. capsici, and acid. acet. fort., and equal parts of ol. terebinth., acid. acetic., and tr. capsici have been

pensed. (14) What should be dispensed for lin. saponis ? The synonym books give lin. saponis. Chemists have ficated that they dispensed lin. saponis c. opio, and that what the practitioner intended. Mr. Gilmour said that in. saponis c. opio is intended, the practitioner should the official designation, lin. opii. (15) Chemists have metimes noted on the prescription form that for lin. b. co. they dispensed lin. tereb., B.P., while others have ed that lin. tereb. acet. was dispensed. It will be erved that lin. tereb. co. is a synonym for lin. alb., P.C. (16) The Drug Accounts Committee interpret ol. ltheriæ as the natural oil of wintergreen, B.P. In ost every case the chemist has stated that he dispensed thyl salicylate. (17) Chemists have noted on the pre- ption form that for carron oil they dispensed lin. calcis, . Mr. Gilmour's view is that they should dispense lin. cis cum ol. lini, B.P.C.

even prescriptions were then considered :

(1)

als. copaib. ...	... 6 dr.	Spt. æth. nit. ...	... 4 dr.
. cubeb. ...	... 1 dr.	Aq. cinn. to ...	... 8 oz.
. trag. ...	... 3 dr.		

The point with regard to the above is the quantity, drachms, of tragacanth, and the fact that it could not be ired into or from an ordinary medicine bottle.

(2)

c. acetylsal.	... 3 dr.	Syr. aurant. ...	... 1 oz.
. trag. ...	... 2 dr.	Aq. chlorof. to ...	... 8 oz.

s prescription occurred very frequently, and on one of m the chemist noted that he only used 8 grains.

(3)

Ext. malt c hypophos. ... ... 16 oz.

chemist noted that he supplied 8 oz. each of syr. hypo. and ext. malti. liq.

(4)

c. sal.	... 30 gr.	Collod. flex. ...	... 4 dr.
xt. cann. ind.	... 2 dr.		

Sig. The paint.

s prescription is interesting in respect of the quantity ext. cannabis indica and the directions.

(5)

Gutt. atrop. c cocain. ... ... qs.
Sig. One drop night and morning.

e chemist dispensed atrop. sulph., 2 gr.; cocain. hyd., r.; colly. ac. boric, 1 oz. This prescription does not form to the Cocaine and Opium Regulations, as the ctitioner "has not stated the total amount of cocaine be supplied." Is the chemist justified in supplying such elatively large quantity, having regard to the directions?

Prescriptions Nos. 6 and 7 were examples where mists had inaccurately calculated the quantities.

DISCUSSION.

Mr. BOA said recently he had a N.H.I. prescription, ingredients measuring 4 or 5 drachms, with direc- ns that a tablespoonful be taken three times per day. communicating with the prescriber, he learned that had omitted the water required to make up the mix- e. With regard to the abnormal quantities of traga- th prescribed, the fact seemed to be that many practi- ners had no idea as to the suspending capacity of gacanth.

Mr. GLASS said in the mixture containing 3 dr. of traga- th, the compound powder would have been sufficient. the case of malt and hypophosphites, he thought the P.C. preparation should have been supplied. The drachms of ext. of Indian hemp would have been better d it said "Tincture of Indian Hemp" and Lin. ponis Co., he thought, should be "Lin. Saponis," be- se it is a compound liniment.

Mr. WILSON said it would be interesting to know how ch discretion the Checking Bureau allowed to the dis- sing chemist.

Mr. DUNCAN said, with regard to Lin. Saponis Co., this me was official in the 1864 Pharmacopœia, and more ently the name had been changed to Lin. Opii.

Mr. JACK said, with regard to Lin. Capsici, the practice d been to supply Fothergill's tincture of capsicum (1 2).

Mr. RUTHERFORD HILL said ol. gaultheriæ really ought be struck out altogether. The therapeutic material ated was undoubtedly methyl salicylate, and the natural had a disadvantage in containing about 1 per cent. extraneous substance, which sometimes caused irrita- n and blistering.

Associations' Winter Session.

Aberdare.—A meeting of the Aberdare Valleys Chemists' Association was held on February 11, the new President (Mr. T. Reynolds, Hirwain) in the chair. Rota service for Insurance dispensing was afterwards discussed and an arrangement come to. It was also decided to write to Burroughs Wellcome & Co., urging a modification of their terms to chemists.

Accrington.—The annual meeting of the Accrington Pharmacists' Association was held recently. It was decided to accept the offer of the Ministry of Health for service during 1920, one member remarking that the increased fee would bring him in an extra 70*l.* per annum, and his increased expenses would be more than that by probably 30*l.* At the request of the President it was decided to ballot for officials for the following year, and, as a result, the following were re-elected : *President,* J. S. Snell; *Honorary Secretary,* W. R. Cameron; *Treasurer,* H. Birkett. The President afterwards expressed his definite intention of retiring next year, and the hope was expressed that more members of the defunct Rossendale Association will attend the meetings.

Birkenhead.—A meeting of the Birkenhead and Wirral Association was held on February 18, Mr. W. A. Wynne in the chair. A letter from the Birmingham Association was read asking for co-operation in securing living profits in certain proprietary articles, and the secretary was instructed to write the firms mentioned. Mr. C. Cooke (Hoylake) started a discussion on *Time, Space and Labour-saving Devices in the Pharmacy.* The advantages of a stock-room index in saving time was demonstrated; also the usefulness of a time-table for the routine work of a pharmacy. A novel extractor for removing floating particles from a liquid without straining it attracted much attention, as also a bandage cutter. A rack for holding dispensing measures can be constructed by screwing hooks into the edge of a shelf. Small objects could each be found a place by using clamp-headed nails to hang them on. A method of utilising space for hanging sieves, etc., was demonstrated, and an ingenious bracket was shown for fixing above the sealing jet, which enabled things such as glycerin mass for suppositories to be kept liquid without trouble, an old vacuum flask supplying an ideal container for the mass. The use of capsules for certain kinds of troublesome pills was also a great time-saver; for example, pills containing much ext. ergotae.

Birmingham.—The Birmingham Pharmaceutical Association has sent a circular to other local associations regarding unremunerative proprietary articles. The boycott as a method of coercing recalcitrant proprietors is not favoured, but it is suggested that efforts should be made to obtain a minimum profit of 25 per cent. on selling price. If requests to the proprietors is of no avail, pressure is to be exerted, if possible, in unison with multiple-shop organisations and wholesalers.

Blackpool.—The annual meeting of the Blackpool and Fylde Pharmacists' Association was held at the Palatine Hotel, Blackpool, recently, the President (Mr. Blackhurst) in the chair. The secretary (Mr. Bailey) read the annual report, and the balance sheet was presented by the treasurer (Mr. Mallalieu). The following officers were elected : *President,* Mr. Mallalieu; *Secretary,* Mr. Blackhurst; *Treasurer,* Mr. Gellibrand; *Assistant Secretary,* Mr. Ibbotson.

Bradford.—The twenty-fifth annual meeting of the Bradford Pharmacists' Association took place on February 19, under the chairmanship of Mr. W. Sutcliffe. Mr. A. T. Bailes (hon. secretary) submitted his annual report, and Mr. W. I. Jolly (treasurer) presented a balance-sheet showing a balance in hand of 51*l.* 13*s.* 2*d.* The report and accounts were adopted. The following new officers were elected : *President,* Mr. Frank E. Burdett; *Vice-Presidents,* Messrs. Arthur Smith and L. B. Sutcliffe; *Treasurer,* Mr. W. I. Jolly; *Hon. Secretary,* Mr. A. T. Bailes; *Council,* Messrs. F. W. Appleyard, A. C. Pyecroft, and W. Sutcliffe. Mr. Sutcliffe, in responding on behalf of his late colleagues to a vote of thanks, briefly

reviewed developments during his two years' presidency, and said he was glad to know that the feeling, which he believed existed at the time he became chairman, that non-proprietor chemists were not so warmly welcome in the meetings as proprietors, has been entirely removed. The Association had greatly benefited by having a minimum retail-price list and a scale of minimum dispensing charges. Leeds Association had that day written to him asking for a copy of the latter, for guidance in a similar list which, he believed, they are about to issue. Mr. Burdett was appointed delegate to the Council of the Bradford Chamber of Trade, and the President, secretary, and six councillors were appointed to attend quarterly meetings of the Chamber. It was decided to give every assistance to the Chamber, and some financial support if required, in taking measures to combat the tendency towards extension of municipal trading. The President remarked that the chemists themselves are victims of this tendency in Bradford, in the matter of the infants' clinics. It was agreed that an offer by The Wm. Browning Co., Ltd., London, to send Mr. Jamieson to lecture on petroleum-oil processes should be accepted. It was decided to endeavour to arrange a dinner for April. Birmingham Association wrote that they could not go the full length of the Halifax proposal of boycott in dealing with unremunerative patents, but they urged associations to send letters to sixteen manufacturers who were named. It was unanimously decided to do this from Bradford. The meeting sent forward a protest to the Proprietary Articles Trade Association against the surcharge of 1½ per cent. on patent medicines. An invitation was received from the Harrogate Association for a representative to attend their annual dinner, and Mr. Burdett was appointed. It was decided to ascertain by circular the number of members likely to require the services of a *locum* during the summer-holiday period.

Carlisle.—The Cumberland and Westmorland Chemists' Association held their first annual meeting since the war at the Crown and Mitre Hotel, Carlisle, on February 19. Mr. Thomas Ridley, Mayor of Carlisle (the first chemist to occupy the mayoral chair), was present, wearing the chain of office, to give the chemists a civic welcome, and he also provided an excellent tea for his guests. Mr. J. H. Grayson (Whitehaven), President of the Association, introduced Mr. W. L. Currie, President of the Pharmaceutical Society, who spoke of the Society's work since its foundation. Mr. Thomas Hardy (Maryport) then gave a short account of his work on the Local Associations Executive as territorial representative.

Chester.—A meeting of the Chester Pharmacists' Association was held on February 24 in the Lecture Theatre, Grosvenor Museum, when a lecture was delivered by Dr. J. Stanley White on *Organo-Therapy and the Manufacture of Biological Products*. Dr. J. G. Taylor presided, and afterwards Mr. W. F. J. Shepheard proposed a vote of thanks to the lecturer.

Chesterfield.—The monthly meeting of the Chesterfield Pharmacists' Association was held on February 17, Mr. Wilbourn (President) in the chair. A letter was read from the Birmingham Pharmaceutical Association *re* unremunerative proprietary articles, and it was resolved that the secretary should write to the firms indicated on the lines suggested by the Birmingham Association. Several members spoke in favour of the boycott, and the Elliman case was quoted as an example of what could be done in that way. It was also resolved that the secretary write Boots, Ltd., to ask if they would agree to a local scheme for fixing fair retail prices on certain proprietaries.

Dublin.—The Dublin Retail Drug Association held a Committee meeting on February 11, Mr. D. M. Watson (President) in the chair. The following were also present: Dr. J. A. Walsh, Dr. A. J. Barnes, Messrs. Geo. Brown, Robt. Mellon, G. A. McLean Lee, John Smith, J. R. Middleton, Victor E. Hanna, Robt. White, and Mr. R. J. Kidney, Secretary. The question of the increase of freightage on proprietary articles was discussed, and it was pointed out that the carriage on small lots to the country districts took away nearly the whole of the retailer's profit. Complaints were received that in many cases members would have to cease stocking certain lines unless they were allowed to increase the retail price, and it was decided to communicate with the Proprietary Articles Trade Association on the matter.

Ealing.—The monthly meeting of the Ealing Pharmacists' Association was held on February 10, the President (Mr. S. C. McKee) in the chair. Mr. P. F. Rowsell addressed the meeting on *Proprietary Articles Trade Association and Chemists' Defence Association Matters*. With regard to patents that did not bear a living profit, Mr. Rowsell suggested that the best way to deal with these was for individuals and associations to write to the proprietors. The great usefulness of the C.D.A. was dealt with, and recent cases in which the Association had benefited pharmacists were discussed. Mr. Rowsell had to answer a good many questions, and a resolution was passed protesting against this surcharge, and calling upon the P.A.T.A. to find some means of doing away with it.

Eastbourne.—The Eastbourne Pharmacists' Association met on February 10, when the method of pricing prescriptions with the word "Bishopgate" was again discussed and general satisfaction expressed at the way it was working. It was agreed that each item on a prescription should have the mark placed against it, the price of double quantities to have the prefix "Dx" against the price making only a moderate reduction for such quantity. It was also agreed to request the Local Associations' Executive, the Chemists' Defence Association, Ltd., and the Proprietary Articles Trade Association to urge the Inland Revenue authorities to allow the 1*s.* article to be increased to 1*s.* 6*d.* and to be covered by the 3*d.* stamp. Mr. H. C. Browne was congratulated on his election to the Committee of the local Chamber of Commerce.

Glasgow.—The monthly meeting of the Glasgow and West of Scotland Chemists' Association was held on February 19, Mr. W. S. Craig (vice-president) in the chair. The subject was a lecture by Mr James Lennox (ex-president of the Association) on *The Chemist as a Business Man*. Mr. Lennox emphasised the opportuneness of the present time as peculiarly fitted for a general "stock-taking" of our position and prospects in the post-war period. He asked everyone to take an unbiassed view of his own shop premises and decide whether these were all they ought to be. He strongly advocated the use of the front shop for display only. Tidy and tasteful display of goods under immaculate glass, prosperous appearance of premises and staff, good lighting, quick and courteous service, and punctual and faithful fulfilment of promises were things of the first importance. Personal attendance of the principal, even at the opening hour, he considered essential. He impressed his hearers with the necessity of knowing their stock thoroughly. A seasonal overhaul of goods is essential. The keeping in stock of the higher-priced articles not only sold these, but also had a great effect in selling larger quantities of the less expensive. He advised that circulars from makers dealing with newly introduced articles should be filed for reference. Monthly accounts should be sent out promptly, and invoices and accounts carefully filed. It was necessary for the principal to show employés a bright example, and so to instil into the staff an *esprit de corps* which would infallibly tend to the increased prosperity of the firm. An interesting discussion followed, in which Messrs. McNicol, Robb, Stone, Guthrie, McEwan, Gracie, A. B. Gilmour, Robertson, McKenzie, Dickson, and McVitae took part.

Harrogate.—The Harrogate Pharmaceutical Association held a meeting on February 12, when, under the presidency of Mr. H. F. Illingworth, a discussion on business topics of the moment took place. The main items were Insurance dispensing and matters of local interest. After the discussion arrangements were made for the annual dinner, which will be held on March 12. This will be the first dinner since 1914.

Ipswich.—A meeting of the Ipswich and Suffolk Chemists' Association was held on February 12, Mr. C. Smalley (President) in the chair. Mr. J. Harcombe Cuff (Bury St. Edmunds) was elected a member. The ques-

tion of the recent surcharge of 1½ per cent. on proprietary goods by the wholesalers came up for discussion, and Mr. G. N. Edwards dealt with the present unfairness of this surcharge. He pointed out several instances where the 1½ per cent. could not be recovered from the purchaser, and showed that where the manufacturers' charge was advanced to a wholesaler, the wholesaler was making some profit on the advance at the expense of the retailer. As regards the carriage consideration, he quoted instances of certain anomalies, one house charged the 1½ per cent. in addition to charging postage on a small parcel; in another case the actual carriage charged on a particular parcel happened to be 4*s.*, the amount of surcharge being 5*s.* 4*d.* Certain instances of wholesale distributors putting on the surcharge of 1½ per cent. where the goods were collected by the chemist from their warehouse were also instanced. A discussion followed, and a resolution was passed protesting against the imposition and recommending its members to refuse payment. A discussion on current prices followed, and the local scheme for 1920 dispensing service was favourably received. Mr. Wiggin (Hon. Sec., East Anglia Federation) drew the members' attention to the forthcoming Federation meeting to be held at Cambridge on March 4. The next meeting will be held at Stowmarket.

Leeds.—At the recent meeting of the Leeds Chemists' Association, under the presidency of Mr. N. N. Armitage, a paper was given by Mr. J. R. Kirk entitled *Olla Podrida*. The speaker advocated better relationships between the chemist and the medical man, and dealt with the situation under the poison laws and the Medicine Stamp Act. In business he thought pharmacy will achieve greater success if more attention is paid to real pharmacy and real side-lines. Mr. Lancaster, whose paper was entitled *Problems Affecting Retail Pharmacy*, spoke on the new educational regulations in pharmacy in regard to status and remuneration. He could not see why the Leeds City Council should not offer a scholarship in pharmacy, as it does in some other professions. Mr. Lancaster said chemists will have to exercise more care than has been customary in costing and allowing for overhead charges. If they give the public a good service, good stuff, and give it with the personal touch, he felt confident that the private chemist has nothing to fear.

London.—A meeting of the London County Pharmaceutical Association was held on February 17, Mr. G. B. Barnard (President) in the chair. The Executive Committee decided to send two representatives to the annual meeting of the Early Closing Association on March 11. A letter was received from the Proprietary Articles Trade Association thanking the Committee for what they had done in trying to induce non-protecting proprietors to joint the P.A.T.A. The Organisation and Trade Sub-Committee reported upon the Rats and Mice (Destruction) Act, the surcharge of 1½ per cent. on proprietary articles, the London Chemists' Price List, and the supply of sugar. The Committee decided to refer particulars regarding No. 2 bait to the district Associations for recommendation to local authorities, and to recommend members of district Associations to adopt the London Chemists' Price List. The question of the annual dinner of the London County Pharmaceutical Association was referred to the Organisation and Trade Sub-Committee, as was also a resolution on patent medicines. The report of the Pharmaceutical Insurance Sub-Committee was adopted. With regard to the forthcoming election of the Pharmaceutical Council, it was decided to refer the nomination of candidates to the district Associations, and that the selection should be sent to the Council Executive for a final selection to be agreed upon.

Newport (Mon.).—At a special meeting of the Newport (Mon.) Chemists' Association it was resolved, as the present pharmaceutical service is satisfactory, to favour an "individual system of contract" for the supply of medicines and surgical appliances. All members present opposed the rota system, but guaranteed an effective service in all parts of the town. It was also resolved that steps should be taken under the Shop Hours Act for earlier closing.

Public Analysts.—The annual general meeting of the Society of Public Analysts was held at the Chemical Society's Rooms, Burlington House, recently, when the President (Dr. Samuel Rideal) delivered his annual address. Mr. Alfred Smetham was afterwards elected *President* for the ensuing year. At the ordinary meeting, which followed, *An Investigation into the Composition of the Unsaturated Hydrocarbons Present in Coal-gas* was reported by Mr. F. S. Sinnatt, M.B.E., and E. L. Slater. The authors separated the bromine compounds of the unsaturated hydrocarbons, present in coal-gas, in sufficient amounts to enable them to carry out a separation of the more volatile compounds. Their experiments show that the percentage composition of the unsaturated hydrocarbons present in coal-gas is as follows :

	First Experiment. Percentage	Second Experiment. Percentage
Ethylene	84.0	84.3
Propylene	13.4	11.8
Butylene	1.75	2.35
Amylene	0.97	1.54

Mr. H. Trickett followed with *The Estimation of the Available Oxygen in Sodium Perborate and in Perborate Soap-powders*, which was carried out under the Society's analytical investigation scheme. The most favourable conditions for the potassium permanganate and potassium iodide volumetric methods were given. A gas volumetric method, based on the following reaction, $NaBO_3 + CaOCl_2 + H_2O = NaH_2BO_3 + CaCl_2 + O_2$ was claimed to be as reliable as the given iodometric method, and to have the further advantages of greater rapidity and direct applicability to soap-powder-mixtures.

Rhyl.—At a meeting of delegates of the North Wales Pharmacists 'Associations, held at Rhyl, on February 11, Mr. J. B. Francis (Wrexham) in the chair, it was decided to form a federation of the North Wales Associations, the officers being elected as follows : *President*, Mr. J. B. Francis; *Vice-Presidents*, Messrs. P. J. Ashfield (Rhyl) and J. McIntosh (Llandudno); *Secretary*, Mr. J. E. Jones (Cefn); and *Treasurer*, Mr. Adamson (Colwyn Bay). The constitution and rules were afterwards passed. After the meeting the delegates were the guests of the Flintshire Association.

Salford.—A meeting of the Salford Pharmaceutical Association was held on February 12, when Mr. Mallinson (Assistant Secretary of the Pharmaceutical Society) delivered an address on *Pharmaceutical Politics*. The President (Mr. Davison) was in the chair. Mr. Mallinson gave an historical survey of the Pharmaceutical Society. The Society, he said, was to blame for not passing at the proper time the regulations relating to the storage of poisons, but he thought they had done the right thing in passing the by-law relating to apothecaries' assistants. It was probable that fewer men would pass the test than was at first expected. He said the Society is on very good terms with the Privy Council now, and he believed they would stand as a bulwark to further encroachment on the chemist's title. Another bright feature was the continual growth in the membership of the Society; there were now over 10,000 members. The question is often asked : "What is the Society doing for us?" It was difficult to tell all they did, neither would it be wise; but he could assure the meeting that many Acts of Parliament, such as the Food and Drugs Act, would be much more severe were it not for the Society. During the war the Society was instrumental in getting the Government to import bottles and bottle-making machinery, as well as getting supplies of sugar, oils, etc., for the chemist's business. Then he spoke highly of the work done by Sir W. Glyn-Jones as Parliamentary Secretary. Mr. Mallinson also dealt with the Ministry of Health, the work of the Local Associations Executive, and the National Council shortly to be formed.

Staffordshire.—At a committee meeting of the Staffordshire Pharmacists' Association, held on February 12, it was decided to accept the scheme for a pharmaceutical service, as agreed to by the Insurance Committee (p. 98).

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Leamington.—The Warwickshire Pharmaceutical Committee met recently, Mr. Hutton in the chair. The secretary reported that the Executive Committee had met the Panel Committee and suggested in the proposed new formulary several alterations, which had been accepted. The new medical benefit regulations were discussed. A resolution that the hours of service for 1920 for Insurance dispensing should be 9 A.M. to 7 P.M. had been received from the County Association, and a deputation was appointed to meet the Insurance Committee and arrange the matter. The administrative expenses of the Committee for 1919 amounted to 107*l.* 6*s.* 7*d.*, and it was decided that the levy on payments made by the Insurance Committee should be discontinued for the present.

London.—A meeting of the Pharmaceutical Committee was held on February 10, Mr. A. J. Wing (chairman) presiding. The margin of error in pricing during November was 0.06 per cent. The Committee considered that any difficulty regarding the adequacy of the Pharmaceutical Service would be removed if doctors adopted earlier surgery hours. The Insurance Committee has agreed that the amount to be deducted from chemists' accounts for the year 1920 shall be 1 per cent. The Committee, after discussion, decided to renew the contract with the Central Checking Bureau until June 30, 1920. The Secretary reported *inter alia*:

(*a*) That five representatives of the Pharmaceutical Committee, five representatives of the Panel Committee, and four representatives of the Insurance Committee will co-operate in the revision of the London Insurance Pharmacopœia. (*b*) That a dispensary was now established in the Millwall area at 451 Manchester Road, Cubitt Town. (*c*) That 150 chemists' accounts (about 40,000 prescriptions) for December had been submitted after the appointed date. The Insurance Committee have indicated that they cannot speed up payments while the necessary machinery is being interrupted and clogged by the receipt of late accounts each month. The Pharmaceutical Committee has decided to send a letter to those chemists on the matter. (*d*) On the decisions of the Insurance Committee regarding the supply by chemists of drugs, etc., for surgery use which is prohibited and the disallowance of certain proprietaries as part of medical benefit. The Committee decided that information on these points should be included in a circular to chemists on the panel. (*e*) Particulars of dispensing in November 1919 are as follows:

Total value of accounts	£12,775 0 10
Total number of scripts	317,018
Average cost per script	9·67d.
Average cost per prescription ...	7·85d.

(*f*) Comparative statement for the third quarters of the years 1918 and 1919:

	1918	1919
Average cost of ingredients	3·53*d.*	3·78*d.*
Average cost of fees	3·30*d.*	3·73*d.*
Average cost per prescription ...	6·83*d.*	7·51*d.*
Average cost per insured person ...	13·57*d.*	14·60*d.*

The Insurance Committee met on February 26 and considered, among other matters, the reports of the various sub-committees. The following is abstracted from the agenda: The General Purposes Sub-Committee recommended that the Insurance Committee accept the ratios obtained in connection with the re-assessment of drug prices for the purposes of Article 5 of the Medical Benefit Regulation, 1916, as regards the prescriptions for the months of April and May 1919 as applying to the whole year. The Medical Service Sub-Committee reported on several complaints brought against practitioners. In one case the evidence suggested that it was the custom of the doctor to instruct a patient to go to a certain chemist, and the Sub-Committee pointed out that any such recommendation is a contravention of the Regulations. The Pharmaceutical Service Sub-Committee reported on the following complaints against chemists: (1) Where an insured patient was supplied with 8-oz. cod-liver oil and malt instead of 1 lb. by a corporate body of chemists. The company admitted the fault, and stated that the employé had been dismissed as a result. The Sub-Committee, believing that the company disapproved of the action of the employé, recommended that no action be taken. (2) Unreasonable delay by a chemist in dispensing a prescription. The charge was found not proven. (3) Incorrect dispensing and the supplying of smaller quantities of medicine on the part of a chemist since resigned. The complaint was found substantiated, and a recommendation made that the chemist be severely censured. (4) Incorrect dispensing on the part of a chemist in supplying a mixture and a gargle to an insured person. Owing to the fact that the labels on the two bottles had been transposed, the patient had taken the gargle instead of the medicine. The chemist did not dispute the charge, and acknowledged that he had remarked that "he was surprised the practitioner did not know medicines," for which statement he had subsequently apologised to the doctor. The complaint was found substantiated, but, considering the circumstances, it was recommended that no further action be taken. The total number of persons on the list of those supplying drugs and appliances on January 31 was 742. This number was constituted as follows: Chemists in general business 681, in institutions 37, and other persons 24. Nine additions have been made to the list during January, and four names have been removed. The Medical Benefit Sub-Committee reported that Miss M. D. Brinton, Messrs. A. R. Melhuish and Dr. B. A. Richmond have been appointed to confer with the Panel and Pharmaceutical Committees on the preparation of the revised edition of the London Insurance Pharmacopœia; also that the "Millwall Insurance Dispensary" will be available for the supply of drugs from 9 A.M. to 12 noon and 6 P.M. to 8 P.M. daily, except Thursday evenings and Saturdays, under the charge of a qualified pharmacist. In the statement of accounts for payment submitted by the Finance Sub-Committee the total amount is 61,207*l.* 15*s.* 7*d.* From the Sanatorium Benefit Fund dispensaries are credited with 493*l.* 10*s.* From the Drug Fund payments to chemists for the medical year 1919 amounted to 12,065*l.* 17*s.* 8*d.*

Salford.—The Pharmaceutical Committee met the Medical Benefit Sub-Committee recently, and agreed to carry on as before in regard to hours of dispensing. A rota may be formed in certain districts, if necessary, on Wednesday and Sunday nights.

Somerset.—During the quarter ended September 30, 1919, 32,123 prescriptions were issued, at a cost of 1,412*l.* 13*s.* 4*d.*, giving an average cost per prescription of 10.55*d.*

Southampton.—At a meeting of the Insurance Committee held recently, the representative of the Pharmaceutical Committee suggested that chemists' opening hours should be from 9 A.M. to 7 P.M. daily except Wednesdays (9 A.M. to 1 P.M., with one hour's service in the evening); Sundays and holidays, one hour's service in the evening; prescriptions marked "Urgent," same arrangements as before. The chairman, however, said they decided to make it half an hour later in the morning, but extended the hours of closing by the same length of time. The chemists were not agreeable, and the Insurance Commissioners having referred the matter back to the Committee, another conference would be held to settle the matter.

Staffordshire.—At a recent meeting of representatives of the Staffordshire Insurance Committee and the Panel and Pharmaceutical Committees, a scheme was drafted to provide for an adequate pharmaceutical service for insured persons at all reasonable times. The draft scheme was approved by the Insurance Committee on February 7. Chemists' shops will shut at 7.30, and a rota or other arrangement formed whereby medicines will be obtainable up to 8 P.M. On Sundays and public holidays a double dispensing-fee will be payable for urgent prescriptions presented after 7.30 or 8 P.M., according to the district in which the hours of closing operated. It

was recommended that where the surgery hours are until P.M. or after the Panel Committee should be approached with the view, if possible, to arranging for the earlier closing of the surgeries. In submitting the scheme, a member stated that there was a feeling that the chemists' shops should remain open half an hour after the closing of the surgeries.—At a meeting of the Insurance Committee, held on February 14, a dicussion was held on the question of chemists' hours, and it was suggested that chemists' shops in the Committee's area be closed at 7.30 P.M. It was decided also to give effect to the suggestion that the Panel Committee be asked to consider the revision of doctors' surgery hours.

Sussex (E.).—At a meeting of the East Sussex Insurance Committee, held recently, a draft scheme to provide adequate facilities for the obtaining of drugs and appliances, by insured persons, was approved.

West Ham.—During the first nine months of 1919 202,303 prescriptions were prepared for insured persons at a cost of 5,804*l.*, or 589*l.* in excess of 1918.

West Riding—Owing to the earlier closing of shops and the shorter working day, the Insurance Committee has decided to arrange surgery hours earlier, so as to enable panel patients to get their prescriptions made up without delay.

Worcestershire.—A meeting of the Pharmaceutical Committee was held at Worcester recently, Mr. W. Corbett (Bromsgrove) in the chair. Reports on the checking of prescriptions for the months of July and August showed that the average error was 0.08 per cent. It was agreed to recommend panel chemists to take service for 1920. With regard to the proposed rota, it was considered that the present hours are quite satisfactory, and that as there have been no complaints in Worcestershire since the inception of the Act, the Insurance Committee should be urged to accept the present hours of service as coming within the term "at all reasonable hours," and decide that no special rota is necessary. Messrs. W. Corbett (Bromsgrove), W. Selleck (Stourbridge), S. Harris (Droitwich), J. J. Meakins (Evesham), and the secretary (D. G. Pout) represented the Pharmaceutical Committee at the subsequent joint meeting of Insurance Panel and Pharmaceutical representatives, held at the Shire Hall to consider Article 9.—At a recent meeting of the Insurance Committee a complaint was lodged against a medical man for issuing bottles of medicine without labels. It was stated in defence that he was pressed with work owing to an epidemic of influenza. He was censured by the Committee.

January Drug Tariff.

The following are the alterations for January in the Drug Tariff for England and Wales issued by the Ministry of Health :

Lower: Ammon. phosph , 4*s.* lb. ; butyl-chloral hyd., 12*s.* 6*d.* oz.; collod. flexile meth., 5*s.* 3*d.* lb.; copaiba, B.P., 7*s.* 2*d.* lb. , glycer. belladon., B.P.C., 8*s.* 2*d.* lb.; homatrop. hydrobrom , 7*d.* gr.; ol. morrhuæ (Norwegian, opt.), 28*s.* 6*d.* gal.; paraff. mol. (alb.), 2*s* lb. ; suppos. morphinæ gr. ½, 8.0*d.* per doz., ditto, gr. ¼, 10.0*d.* per doz., ditto, gr. 1, 14.0*d.* doz.; tab barbiton. gr. v., 6.3*d.* per doz. ; tab guaiacol. carb. gr. v., 5.0*d.* per doz.; tab. naso-pharyngeal co., 3.9*d.* per doz.; tab. sulphonal., B.P.C., gr. v., 11.5*d.* per doz.; tr. oamph. co., 4*s.* 9*d.* lb. ; vinum ipecac., 5*s.* 3*d.* lb. ; zinci oxid., 1*s.* 5*d.* lb.

Higher: Acetanilidum, 5*d.* oz.; acid. tannic., 16*s.* 3*d.* lb.; ammon. brom., 5*s.* 8*d.* lb. ; ammon. carb., 2*s.* 6*d.* lb. ; argent. nit. mitigat., 4*s.* oz.; bals. peruv., 2*s.* 4*d.* oz.; camphora (flowers), 23*s.* 6*d.* lb.; chloroform. camph., B.P.C., 23*s.* lb.; dec. senegæ (ex conc.), 10*s.* lb.; ext. ergotæ, 19*s.* 6*d.* oz.; ext. ergot. liq., 35*s.* lb. ; ext. malti, 1*s.* 4*d.* lb.; ext. malti c. ol. morrh., B.P.C., 1*s.* 7*d.* lb. ; hexamina, 1*s.* 2*d.* oz. ; inf. senegæ (ex conc.), 9*s.* 3*d.* lb. ; lin. belladon. meth., 9*s.* 3*d.* lb.; lin. camph., 8*s.* 2*d.* lb.; lin. camph. am. meth., 7*s.* 2*d.* lb. ; lin. chlorof., 7*s.* 10*d.* lb. ; lin. hydrarg., 8*s.* 6*d.* lb. ; lin. methyl. sal. co., B.P.C., 16*s.* 3*d.* lb.; liq. atrop. sulph., 1*s.* 3*d.* oz. ; liq. formaldehyd., 2*s.* 7*d.* lb ; lithii carb., 1*s.* 3*d.* oz. ; lithii cit., 1*s.* 4*d.* oz.; lith. cit. effervesc., 6*s.* lb.; menthol, 7*s.* oz.; ol. anisi, 8½*d.* oz.; ol. caryoph., 28*s.* 6*d.* lb. ; ol. lini, 14*s.* 3*d.* gal. ; papav. capsulæ Ang , 12*s.* per 100 ; paraldehyd., 9½*d.* oz.; phenazon., 2*s.* 3*d.* oz. ; podoph. res., 4*s.* 3*d.* oz. ; pot. brom., 6*s.* lb. ; pulv. glycyrrh. co., 1*s.* 9*d.* lb. ; pulv. lobeliæ co., B.P.C., 5*s.* 6*d.* lb. , pulv. tragac. co., 6*s.* 6*d.* lb. ; quin. hydrochl., 7*s.* 8*d.* oz. ; quin. hydrochl. acid., 8*s.* cz. ; quin. sulph., 4*s.* 6*d.* oz. ; resorcinum, 4*s.* 3*d.* oz. ; salol, 8½*d.* oz. ; sodii brom , 5*s.* 3*d.* lb. ; syrupus, 1*s.* 1*d.* lb. ; syr. limonis, 1*s.* 1½*d.* lb. ; tab. acetanilid. gr. iii., 1.2*d.* doz. ; tab. acetan. co., B.P.C , 1.9*d.* doz. ; tab. calomel. (tab. hydr. subchl. B.P.C.) gr. iii., 1.4*d.* doz. ; ditto gr. v., 1.8*d.* doz. ; tab. formaldehydi, B.P.C., 1.5*d.* doz. ; tab. pot. chlor., B.P.C., gr. v., .5*d.* doz. ; tab. salol. gr. v., 2.0*d.* doz. ; tab. santonin. gr. i., 14.5*d.* doz. ; tab. santonin co., B.P.C., 14.8*d.* doz. ; tab. trinitrini, 1.4*d.* doz. ; theobrom. et sod. salicyl., 3*s.* oz. ; thymol, 3*s.* 10*d.* oz. ; ung. hydrarg., 6*s.* 8*d.* lb. ; ung. hyd. co., 9*s.* 6*d.* lb. Bandages: crêpe, 3½ in., 19.5*d.* ; muslin. 4 in., 5.6*d.* Gauzes: boric, 27.0*d.* ; carbolic, 27.0*d.* ; cyanide, 28.0*d.* ; sal-alembroth, 26.0*d.* ; sublimate, 27.0*d.* ; iodoform, 42.0*d.* ; picric acid, 37.0*d.* per package. Lints : unmedicated, 1 oz., 4.5*d.* ; 2 oz., 8.5*d.* ; 4 oz., 16.5*d.* ; 8 oz., 32.5*d.* ; 1 lb., 63.0*d.* ; boric, 1 oz. 3.0*d.*, 2 oz. 5.6*d.*, 4 oz., 10.7*d* , 8 oz., 20.0*d.*, 1 lb., 38.0*d.* Wools : cotton, 1 oz., 2.3*d.*, 2 oz., 4.2*d.*, 8 oz., 14.0*d.*, 1 lb., 26.0*d.* ; boric, 31.0*d.* lb. ; sal-alembroth, 33.0*d.* lb. Oiled silk, 39.0*d.* yd.

DOCTORS' REMUNERATION. — It was recently agreed between the Government and the medical profession that the question of the remuneration of doctors under the National Insurance Acts should be submitted to arbitration. The following have consented to act as the arbitrators : Mr. F. Gore-Browne, K.C. (a master of the bench of the Inner Temple), chairman ; Sir Richard Vassar-Smith, Bart. (president of the council of the Institute of Bankers, chairman of Lloyds Bank Ltd.) ; Mr. J. C. Stamp, C.B.E., D.Sc., Fellow of the Royal Statistical Society (secretary to Explosives Trades, Ltd., member of the Royal Commission on Income Tax). The terms of the reference to the arbitrators are as follows :

To advise the Government what should be the amount of the capitation fee (per insured person per annum) on the basis of which the Central Practitioners' Fund under Article 19 (i) of the Medical Benefit Regulations, 1920, should be calculated, so as to afford fair remuneration for the time and services required to be given by general practitioners, under the conditions set out in those regulations, in connection with the medical attendance and treatment of insured persons. This capitation fee is not to include any payment in respect of the supply of drugs and appliances (such payments being met out of the Drug Fund under Article 22), nor any payments to meet those special conditions of practice in rural and semi-rural areas, which are covered by the payments to be made out of the Central Mileage Fund under Article 19 (ii).

INSURANCE ACTS CRITICISM.—Mr. E. W. Morris, House Governor of the London Hospital, writing to the "Daily Telegraph" on treatment of the sick, refers to the National Insurance Act as follows :

No Act has been more abused, and this may be partly due to the fact that no Act has been more misused. The Act deserves some of the abuse which has been showered upon it, but not all. It has been of more use, because less misused, in the country districts than in the towns. In the towns it has benefited, perhaps, the doctor more than the patient; in the towns the hospitals were at hand to take the troublesome cases, and the doctor was tempted, and in some cases yielded to the temptation, to take a much larger number of people on to his panel than he could possibly attend properly. The great fault of the Act is its incompleteness. It has no machinery for treating serious illness (except tuberculosis), and serious illness has still to be dealt with by the great charitable institutions. Another fault is that the Act only deals with the actual workers, and with these only if earning less than a certain salary. It does nothing for us when we are very young, nothing for us when we are very old; nothing (except the part that deals with childbirth) for our wives and families. By the payment week by week of certain premiums by the employer and the employed, the workman or workwoman is entitled to receive, amongst other benefits, such medical assistance as the general practitioner of average ability can render—no more. But when the patient needs a surgical operation, or that some difficult investigation should be conducted, or is visited by an illness that requires long and skilful nursing, he still has to come cap in hand to one of the medical charities and say, "Please help me." The benefits of the Insurance Act must be extended, as has always been the intention, so that the advantages now provided by charity, and willingly provided, shall be given to the patient as his right.

COTTON-WOOL soaked in carbolic acid is stated to have been the padding of a gag used in a recent case of assault.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Feb 26.

Although a quieter tone has been in evidence this week, especially in speculative produce, a very fair volume of business has been done, chiefly on the export side, and a number of important changes have been made, mostly in an upward direction. Mercury has advanced another 20*s.* per bottle, and mercurials are 3*d.* per lb. higher. Iodine compounds are 5*d.* to 6*d.* dearer on increased working expenses, crude iodine being unchanged. Strychnine and salts have advanced 1*s.* per oz. on dearer raw material. Potash bromide is weak, but soda and ammonia are steady. Benzoic acid is cheaper. Hexamine and formaldehyde have sharply advanced; aspirin, acetanilide, pyrogallic acid, thymol, saccharin and phenazone have a firmer tendency. Calcium lactate, methyl salicylate, hydroquinone, amidol, and metol are offered more cheaply. Citric and tartaric acid and cream of tartar are all very firm and in upward tendency. Among drugs, Matto Grosso ipecacuanha is scarce and dearer; nux vomica, senega, lycopodium, lobelia, henna-leaves are strong and dearer. English castor oil has risen 10*l.*; new Norwegian cod-liver oil is cheaper for forward shipment. Canary-seed is again lower; fenugreek is easier; cumin is firm, dill is quiet, coriander is steady, and mustard-seed lower. Jamaica ginger is dearer on continued American demand, and stocks have rapidly depleted. Menthol and oil of Japanese mint are lower, as is Japanese refined camphor. Shellac is lower.

Higher	Firmer	Easier	Lower
Castor-oil	Acetanilide	Cassia lignea	Amidol
Cocoa-butter	Aspirin	Cod-liver oil (Norw.)	Benzoic acid
Formaldehyde	Bergamot oil	Coumarin	Camphor (Jp. ref. slabs)
Ginger (Jam.)	Lemon oil	Fenugreek-seed	Calcium lactate
Galls (Ch.)	Lime-juice	Hydroquinone	Canary-seed
Henna-leaves	Linaloe oil	Methyl salicylate	Cinnamon
Heliotropin	Pyrogallic acid	Pimento	Isinglass
Hexamine	Rosemary oil		Juniper-berry oil
Iodine (resub)	Spike oil		Menthol
Iodoform	Tartaric acid		Metol
Lobelia	Thymol		Mint oil (Jp.)
Lead compounds	Vanillin		Mustard-seed
Lemongrass oil	Wax, veget. (Jp.)		Metol substitute
Lycopodium			Shellac
Linseed oil			
Mercurials			
Nux vomica			
Orange oil			
Potash iodide			
Quicksilver			
Senega			
Sodium iodide			
Strychnine and salts			
Vermilion			

Cablegram.

New York, February 25.—Business is quiet. Menthol is lower at $13.75. Short buchu is dearer by 15c. at $2.75. Mexican sarsaparilla has been reduced to 40c. Antipyrin (phenazone) has been advanced to $7.50. Oregon balsam of fir is 10c. lower at $1.80. Formaldehyde has advanced to 50c. per lb., and hexamine to $2.10 per lb.

Acetanilide is tending firmer at from 4*s.* 3*d.* to 4*s.* 6*d.* per lb. as to quantity.

Amidol is lower at 10*s.* 9*d.* per lb. on the spot.

Antimony.—Advices from China in regard to the state of the mining industry show no improvement, while the supply of crude is exhausted, and until the mines are restarted, exports of crude will be held up. The China rate of exchange is much too high for one thing, and would also require a big setback in the price of silver in order to permit of new production. Demands are numerous on this side, and almost any figure would presumably be conceded for crude for urgent needs.

Arsenic rules firm at from 68*l.* to 70*l.* per ton for white Cornish delivered London, the supply being rather light, and there is a steady demand. The leading American copper mines are planning the production of trioxide of arsenic on an extensive scale, and the output will, it is suggested, dominate the market, as it is estimated that it may run into some thousands of tons per annum. The Anaconda Copper Co.'s object in this is not really to attempt to derive any material profit therefrom, its principal aim being said to get rid of the substance. Heretofore the arsenic was belched into the atmosphere through the smelter stacks in the form of vapour, and the resulting condensation on near-by farms poisoned stock and caused the company no end of trouble and litigation. With the construction of the Cottrell treaters this arsenic will be retained. Trioxide of arsenic is principally used as an insecticide for fruit trees.

Aspirin is tending firmer, with English makers selling at 6*s.*, and in second-hands 5*s.* 10½*d.* will buy B.P.

Balsam Peru.—The synthetic product is again on the market, and is offered on the spot at 10*s.* per lb.

Balsam Tolu is in fair supply on the spot, and the price is steady at about 9*s.* per lb.

Barbitone is quiet, with prices unaltered at from 28*s.* to 29*s.* per lb.

Benzoic Acid ex toluol is offered at the cheaper rate of 4*s.* 9*d.* per lb.

Calcium Lactate is about 1*s.* per lb. cheaper, B.P. quality offering at from 7*s.* to 7*s.* 6*d.* per lb. as to quantity, but sales have also been made at from 7*s.* 6*d.* to 8*s.* Imports have lately been on a more liberal scale.

Camphor (Refined).—Japanese slabs on the spot are about 6*d.* per lb. cheaper, sellers offering at 19*s.*, and February shipment at 17*s.* 6*d.* c.i.f.

Canary-seed is lower, but with more business doing at 190*s.* to 197*s.* 6*d.* per quarter for ordinary to fair Morocco, and at 200*s.* to 207*s.* 6*d.* for good.

Capsicums have continued in demand for export to America. The spot price for mixed stalky Bombay is now about 70*s.* per cwt. *Chillies* are comparatively scarce and the price is nominal at 95*s.* to 97*s.* 6*d.*

Cascara Sagrada is selling in small lots on the spot at 107*s.* 6*d.* per cwt. for two-three year old.

Cassia Fistula.—An arrival of 85 baskets has taken place from Holland; last price paid was 185*s.* per cwt.

Castor Oil.—Hull make has advanced 10*l.* per ton, pressers quoting 114*l.* for pharmaceutical, 111*l.* for first pressing, and 109*l.* for second pressing, net, in barrels ex works, Hull. The chief cause of the advance is said to be due to the rise in the rupee. Adequate supplies of seed from Bombay have not been forthcoming, and pressers have been getting additional material from Brazil and East Africa. For medicinal French oil the spot price is 120*s.* per cwt. in cases.

Chamomiles.—Spanish grown are quoted at 142*s.* 6*d.* per cwt. on the spot.

Citric Acid is firm at 5*s.* 6*d.* per lb. on the spot from second hands.

Cloves are quiet, with spot sellers of Zanzibar at 2*s.* 8*d.* per lb., and March-May delivery at 2*s.* 8*d.* The value of Penang is from 3*s.* to 3*s.* 6*d.* per lb. The London stock of Zanzibar is 18,220 bales, against 9,488 bales in 1919 and 14,439 bales in 1918.

Cocoa-butter is 3*d.* per lb. dearer, with sellers of prime English at 2*s.* 10½*d.* per lb. ex works.

Cod-liver Oil.—Our Bergen correspondent writes on February 19 that the cod-fishing is making slow progress. The last report shows the following results up to February 14:

	1918	1919	1920
Catch of cod (millions)	0.5	1.	2.
Yield of c.l.o. (hect.) ...	0.400	1 100	3.300
Liver for "raw" oils (hect.) ...	47	760	1.060

Opening quotations for new Norwegian oil include 390*s.* per barrel c.i.f. for March-April shipment.

COPPER SULPHATE.—Prices have lately fluctuated at ound 50*l.* per ton in casks f.o.b. for export from iverpool, but the tone is firm, this figure being still te nearest quotation. The demand for home farm use fairly active.

CORIANDER-SEED is steady, with business at 22*s.* 6*d.* r cwt. for fair Morocco.

COUMARIN.—The German Ministry of Economics has ked the price at 950m. per kilo., although the price the market is considerably higher. It is also reported at Germany has resumed manufacture; on the spot from s. to 45*s.* per lb. is quoted.

CREAM OF TARTAR.—The lowest spot price for 99 to 100 er cent. powder for prompt delivery is now 300*s.* per cwt., id for 95 per cent. 270*s.* is quoted. France reports a large emand for the lower strength, and supplies are still ifficult to obtain.

CUMIN-SEED is firm at 40*s.* to 42*s.* 6*d.* per cwt. for ommon to ordinary Morocco, and at 45*s.* to 47*s.* 6*d.* for ir to good sifted.

DILL-SEED is quiet at 16*s.* 6*d.* per cwt. for fair East ndian.

ERGOT.—The *Solholm* from Bilbao has brought 44 bags. pot price of Spanish is from 27*s.* 6*d.* to 30*s.* per lb.

EUCALYPTOL.—Crystallisible is offered at 6*s.* 6*d.* per lb. n the spot.

FARINA is firm, with sales of No. 1 Japanese at 38*s.* er cwt., and February-April shipment at 37*s.* 6*d.* c.i.f. weet potato flour is 34*s.* on the spot.

FENNEL-SEED is quoted 34*s.* to 36*s.* 6*d.* per cwt. for rdinary to fair East Indian.

FENUGREEK-SEED is easier at 15*s.* 6*d.* per cwt. for fair Morocco.

FORMALDEHYDE is dearer, with spot prices showing a ide range; sales have been made at from 320*s.* up to 50*s.* per cwt. in casks, and in some quarters even higher han the foregoing is asked. It cannot be replaced at hese prices from America, where 50c. per lb. is quoted. Heavy lighterage expenses are incurred in handling this ulky chemical, adding largely to the import cost.

GALLIC ACID is in short supply for prompt delivery, with English makers well engaged for forward delivery. B.P. s fully worth 7*s.* 6*d.* per lb.

GALLS.—Chinese are dearer, with spot sales of plum-haped at 200*s.* per cwt., and afloat at 195*s.* c.i.f.; rdinary shape is quoted at 190*s.*, and afloat at 185*s.* i.f. Persian remain firm, blue offering at 160*s.* per cwt.

GAMBOGE.—Fair bright Siam pipe maintains the pre-ious price of 40*l.* per cwt., in spite of the fact that rrivals are taking place more freely.

GINGER.—High prices continue to be paid for washed ough and Calicut, and it is predicted that unless any-hing unforeseen occurs 100*s.* will have to be paid for hese descriptions. The situation appears to be controlled y the increasing consumption in the United States. pot stocks of Jamaica are now very scarce, with nothing vailable below 120*s.* to 130*s.* for good bold and 100*s.* or small dark, slightly wormy. Prospects point to amaica going still higher, as there is still a large American emand.

GUAIACOL CARBONATE is scarce on the spot at about 7*s.* 6*d.* per lb.

GUAIACUM.—In view of the large supplies, buyers hold off, sellers asking 6*s.* for good glassy block.

HENNA-LEAVES are dearer, with sales up to 13*l.* 10*s.* per cwt.

HEXAMINE shows a sharp advance, as anticipated last week. Our New York cable quotes $2.10 per lb., but igher prices than this have been cabled. Spot sales have been made at from 12*s.* 6*d.* to 13*s.* 6*d.* per lb., and a imited quantity could be had on Wednesday at 14*s.* 6*d.*, although some ask up to 18*s.*

HONEY is steady at the last auction prices; the sales include Australian at from 73*s.* to 77*s.* 6*d.* for pale set to bright amber set, pale amber set Cuban at 92*s.* 6*d.*, and white set New Zealand at 110*s.* per cwt.

HYDROQUINONE is easier, importers offering at 12*s.* to 12*s.* 3*d.* per lb. on the spot, and 11*s.* c.i.f. to arrive.

IODIDES.—Although crude iodine is unchanged at 1*s* per oz., the English makers of iodine compounds have raised their prices 5*d.* to 6*d.* per lb., owing to increased working expenses. Potassium iodide is 6*d.* higher at 16*s.* in cwt. lots. The following are 5*d.* higher: Sodium iodide at 17*s.* 2*d.*; resublimed iodine at 18*s.* 9*d.*; and iodoform at 21*s.* 9*d.* per lb. These are the prices for minimum quantities.

IPECACUANHA is dearer and getting scarcer. Sales of Matto Grosso have been made from dealers' hands at from 18*s.* to 19*s.* 6*d.* per lb., and 20*s.* is asked. First-hands appear to be without stock.

LAVENDER-FLOWERS.—Spanish grown, on the spot, are quoted at 85*s.* per cwt.

LEAD COMPOUNDS.—There is an uninterrupted active demand which cannot be satisfied to anything like its full extent. Prices have again risen. The latest quotations available are as follow: Dry white lead, 73*l.*, and white lead in oil 85*l.* per ton f.o.b. for export. Red lead and litharge range from 72*l.* 5*s.* to 73*l.* 15*s.* for home and export, according to quantity. The higher figure is for small lots. A further revision upward is expected this week.

LIQUORICE-ROOT.—For good Italian natural packed in 5-kilo. bundles 145*s.* per cwt. is asked.

LIME JUICE is firmer, importers of good raw West Indian asking 3*s.* 6*d.* per gallon.

LINSEED OIL.—The market has worked again to a higher level; and, notwithstanding the hand-to-mouth demand on home account, there is no sign of reactionary conditions. Home crushers are well sold up, and the position is largely governed by the decided firmness of the market in this product. River Plate seed is in strong request on American and Continental account. In London up to 120*l.* per ton to 121*l.* 10*s.* per ton has been paid for oil, and in Hull up to 117*l.* 10*s.* naked.

LOBELIA HERB is again higher, spot holders asking 8*s.* 6*d.* per lb. The position in America is quite nominal in the absence of supplies, but when available $1.50 has been paid, equal at the present rate of exchange to about 9*s.* per lb.

LYCOPODIUM.—In the absence of arrivals the market has been gradually advancing for some time past; holders asking 10*s.* to 10*s.* 6*d.* per lb. for treble-sifted, which compares with our quotation of 7*s.* 9*d.* at the end of January.

MENTHOL is lower, with sales of Kobayashi-Suzuki (practically arrived) at 65*s.* per lb. c.i.f. There has been some doubt about the spot figure this week, but 69*s.* appears to represent the price of the favourite brands.

MERCURIALS.—Following on the advance of mercury, the makers have raised their prices by 3*d.* per lb. The list prices and lots below 1 cwt. are: Hyd. ammon., 8*s.* 3*d.*; hyd. oxid. rub., 8*s.* 8*d.*; præp., 8*s.* 2*d.*; hyd. oxid. flav., 8*s.*; hyd. perchlor., 7*s.* 5*d.*; hyd. persulph., 6*s.* 6*d.*; hyd. subchlor. (calomel), 7*s.* 10*d.*; hyd. sulph. nig., 7*s.* per lb. net; not less than 1-cwt. lots are 1*d.* per lb. less. Italian corrosive sublimate from importers is offered at 5*s.* 9*d.* per lb.

METHYL SALICYLATE is a trifle easier, importers offering at from 5*s.* to 5*s.* 6*d.* per lb., and at 4*s.* 9*d.* afloat.

METOL is about 10*s.* per lb. lower, pure offering at 25*s.*, and metol substitute is also cheaper at 20*s.* per lb.

MUSK SEED (Ambrette) is quoted at 2*s.* 9*d.* per lb. ex Havre.

MUSTARD-SEED is lower at 82*s.* 6*d.* per cwt. for good yellow English.

NUTMEGS sell slowly, and easier prices have been paid for Singapore 80's.

NUX VOMICA.—Stocks have been considerably depleted of late, and there are now buyers of Bombay at 50*s.* on the spot.

OPIUM.—With buying for Japanese account still taking place in Turkey, the market keeps firm, good druggists' on spot offering at 21*s.* per lb., with a fair supply available.

A Smyrna advice dated January 31 states that the sales this week on our market amount to 59 baskets, at piastres 930 to 1,000, equivalent to 18*s.* to 24*s.* per lb. c.i.f. The exchange for cheque on London to-day is piastres 405 per pound sterling, and for dollars 0.88 cents for one Turkish paper pound. The arrivals are 1,425 cases, against 175 at same date last year.

A Smyrna advice, dated February 6, states that the sales this week amount to 36 cases, at prices ranging from 16*s.* to 19*s.* per lb. c.i.f., as to quality. The exchange has dropped to piastres 405 per pound sterling for cheque, but dollars are still maintained at $0.87 per one Turkish paper pound. The arrivals are now 1,450 cases, against 165 at same date last year.

Pepper is steady, the value of fair *black* Singapore on the spot being 11*d.*; sales of February-April shipment have been made at 10⅞*d.* to 11*d.* c.i.f., and March-May and April-June at 11*d.* c.i.f. Lampong is 10½*d.*, Tellicherry 1*s.* 1*d.*, and Alleppy 11*d.*, all spot. *White* pepper is quiet, the value of Muntok being 1*s.* 5½*d.* spot, and March-May shipment 1*s.* 5½*d.* c.i.f. Singapore is 1*s.* 5*d.*, and March-May shipment 1*s.* 4½*d.* c.i.f.

Phenacetin is inclined to be firmer, at from about 17*s.* to 18*s.* per lb. Demand is quiet, but holders are not pressing their stocks.

Phenazone.—Another 25c. per lb. advance in the American price is announced this week ($7.50 per lb.), and, in accordance therewith, some importers have raised their spot prices in sympathy to 27*s.* 6*d.* to 28*s.* 6*d.*; but it can still be bought at 26*s.* 6*d.* per lb.

Pimento is easier, with sales on the spot at 6*d.* per lb. and sellers.

Pyrogallic Acid is the turn firmer, in keeping with gall products. Resublimed is quoted at 14*s.* and crystals at from 12*s.* 3*d.* to 12*s.* 9*d.*

Quicksilver.—There is a very active demand. Prices were advanced 10*s.* per bottle on Friday last, and by a like amount on Monday this week, when they ranged from 24*l.* 10*s.* to 24*l.* 15*s.* This is pretty close on the highest ever recorded, and the rate at which imports are coming along is apparently not sufficient to check the upward tendency. It reported that inquiries have come on the market both from India and China.

Quinine Sulphate is selling at 5*s.* 3*d.* per oz. from second-hands.

Resorcin.—Business has been done at 40*s.* per lb. for April despatch from works.

Rhubarb.—To arrive, sales of rough round horny High-dried are reported at 7*s.* per lb., and on the spot 8*s.* is quoted. Good flat High-dried is offered at 10*s.* 6*d.*, and good bright Shensi at 12*s.* 6*d.* per lb.

Saccharin is still tending firmer, owing to the lack of a certain raw material, and the market has to depend more on English makers, who are in arrears with their deliveries. In bond from 24*s.* to 25*s.* per lb. is quoted for 550. There is, of course, no ban on American importations, but the price is not attractive, and it cannot compete with the British make, which enjoys the preferential duty.

Saffron.—B.P. descriptions are on offer on the spot at from 62*s.* 6*d.* to 72*s.* 6*d.* per lb. as to quality.

Salol is steady at from 6*s.* 9*d.* to 7*s.* per lb. on the spot.

Santonin.—Small sales are being made on the spot at extremely high prices to needy buyers; spot supplies are extremely small.

Senega.—The last price paid appears to have been 12*s.* 6*d.* per lb., but holders ask 13*s.* to 14*s.*, in view of the higher c.i.f. quotations.

Shellac has been quiet, the spot price of usual standard TN Orange quality closing at 830*s.* per cwt., AC cakey is 620*s.*, and GAL 600*s.* Futures, after daily fluctuations, show little change on balance sales including May at 770*s.* to 785*s.* to 765*s.*

Soda Hyposulphite.—There is still a scarcity of pea crystals, as makers are considerably in arrears with their deliveries, and it is not profitable to import. The nominal price is about 25*s.* per cwt.

Stramonium.—Spanish leaves are quoted at 100*s.* per cwt. on the spot.

Strychnine.—In consequence of the advance in nux vomica following on the rise in the value of the rupee, makers of strychnine have advanced their prices by 1*s.* per oz., and now quote B.P. crystals in bulk at 7*s.* 10*d.* per oz., and powder at 7*s.* 9*d.* The following are the quotations for salts: Acetate, 7*s.* 10*d.*; arseniate, 7*s.* 8*d.*; bisulphate, 7*s.* 4*d.*; cacodylate, 15*s.*; citrate, 7*s.* 9*d.*; hydriodide, 8*s.* 9*d.*; hydrobromide, 7*s.* 11*d.*; hydrochlor., B.P., 7*s.* 7*d.*; hypophosph., 9*s.* 7*d.*; nitrate, 7*s.* 6*d.*; phosphate, 8*s.* 1*d.*; sulphate, 7*s.* 6*d.*; and valerianate, 10*s.* per oz. net, with out engagement. *Hulle's* crystals have also been advanced by 1*s.* to 8*s.* per oz. in 1-oz. bottles, and soluble 7*s.* 9*d.* net.

Sugar.—The Royal Commission on the Sugar Supply have decided to make no change in the maximum price of free sugar to manufacturers, it remaining at 120 per cwt., ex store, duty paid, less 1½ per cent., from February 21 to March 20 inclusive. There is also no alteration in the conditions of distribution.

Tartaric Acid.—The increasing cost of raw materials and the inability of foreign makers to forward the usual quantities continues to affect this market, and as short supplies are expected during the greater part of this year, steadily increasing values are anticipated. At the moment 3*s.* 10*d.* to 3*s.* 11*d.* is quoted on the spot, but higher prices are anticipated later.

Terpineol.—To come forward (chemically pure) is offered at 5*s.* 9*d.* per lb., and on the spot from 7*s.* 3*d.* is quoted.

Thymol has been in better demand of late, and sales of good Indian crystals have been made at from 47*s.* 6*d.* to 50*s.* per lb., at which further lots are available.

Tragacanth.—There is a large inquiry principally for export to the United States, but business is retarded by the congestion at the wharves, where, owing to lack of room, it is impossible to sample or "work" the recently arrived consignments. Extremely high prices have been paid for fair and good seconds ribbon from second-hands.

Vermilion.—In consequence of the further advance in mercury, English makers of vermilion have raised their prices by 2½*d.* to 3*d.* per lb., quoting from 7*s.* 1*d.* to 7*s.* 2*d.* per lb. net, according to quantity.

Wax (Vegetable) is firm, with spot sales at 100*s.* per cwt.

Essential Oils Market.

The general uncertainty of the market continues to have a very disturbing effect on business, and lends itself to considerable amount of speculation, especially over rates of exchange. There is a limit to high prices, and while in some cases it is probable that the maximum has been reached, there are no definite prospects of a general lowering tendency. There is no doubt that when Germany settles down to work in earnest the value of the mark will greatly increase, and this will react upon synthetics especially. A substantial increase in the value of the mark is believed in some quarters to be imminent. Lemon oil is dearer on the spot. A big rise is to be recorded at the source in the price of orange oil. Lemongrass is scarce, higher prices being demanded. Juniper-berry oil is lower, and bergamot is firm on the spot. Cananga is fairly steady and in good demand. Geranium is scarce, and remains steady. Rosemary to arrive is a little easier, and is firm on the spot. Among the synthetics, coumarin is somewhat easier, heliotropin is firmer, for parcels to arrive; methyl salicylate is steady, and vanillin firmer.

Anise, Star, is quiet, the spot value of "Red Ship" brand being 5*s.* 6*d.* per lb.; sales not reported have been made at slightly less.

Bergamot, 38 per cent. l.a., is steady at 26*s.* to 27*s.* 6*d.* per lb. on the spot. For forward delivery prices are firmer, from 26*s.* 6*d.* to 28*s.* 6*d.* c.i.f. London.

Cananga is said to be going well at from 26*s.* to 27*s.* per lb.

Caraway is selling at from 14*s.* to 15*s.* per lb. on the spot. A strike in Holland at the docks is said to be responsible for a firmer tendency.

Cassia is quite steady at 9*s.* 6*d.* per lb. for 80 to 85 per cent. cinnamic aldehyde.

Cedarwood.—American is firmer at 3*s.* 1*d.* per lb. Up to 3*s.* 3*d.* is quoted.

Cinnamon (Leaf).—For Ceylon 1*s.* 2*d.* per oz. is asked.

Cognac.—An artificial white oil approximating the natural product is offered at 25*s.* per lb. on spot.

Geranium.—A good demand is reported for Bourbon on the spot at 40*s.* per lb.; forward at 36*s.* The *Aunis* has brought 12 cases from France to London.

Juniper Oils (Spanish) are easier at 21*s.* per lb. on the spot for B.P. *berry*, and *wood* at 4*s.* 9*d.* per lb.

Lavender.—Genuine French 25 per cent. esters is offered at 38*s.* o.i.f. London, 32 per cent. at 41*s.* per lb. For cultivated of undescribed ester content 54*s.* per lb. is asked, to arrive. There is, however, a great variation in price quoted, and the range may be from 40*s.* to 55*s.* per lb., a

seller and percentage of esters. Spanish with 10 to per cent. esters is quoted on the spot at 30*s.* per lb.

LEMON is a trifle firmer, with prices on the spot showing e wide range of from 8*s.* 9*d.* to 10*s.* per lb., and to arrive om 9*s.* to 9*s.* 6*d.* c.i.f. is quoted. Spanish is offered on e spot at 8*s.* 3*d.* per lb.

LEMONGRASS is in demand at 1*s.* 4*d.* to 1*s.* 5*d.* per oz., d sales have taken place this week at the latter figure; cases from Cochin to London have arrived.

LIME is firm at 7*s.* per lb. on spot for West Indian dis- led, and for hand-pressed 16*s.* is quoted.

MANDARIN is steady at from 50*s.* to 51*s.* per lb. A very e Sicilian oil is quoted at 63*s.* per lb.

MINT.—Japanese dementholised is quiet and easier, with ot sellers of Kobayashi-Suzuki at 16*s.* per lb.

ORANGE.—Early in the week for Calabrian *sweet* 30*s.* r lb. on the spot and 33*s.* to 35*s.* per lb. to arrive was ked. According to advices from Sicily, the market has ice considerably hardened, and 41*s.* to 42*s.* has been paid. *tter* is quoted at 36*s.* to 38*s.* to arrive. Spanish oil on e spot is 22*s.* per lb.

ORRIS.—A fine oil, described as suitable for the perfumery ade, is on offer at 30*s.* 5*d.* per lb. A lower grade is quoted 15*s.* 2*d.* per lb. Concentrated liquid extract is offered out 53*s.* per oz. and concrete 27*s.* 6*d.* per oz. These are arrive.

PEPPERMINT.—A Dutch product, guaranteed B.P., is on fer at 32*s.* per lb., and a fine French oil from Mitcham ants is quoted at 65*s.* per lb.

PETITGRAIN is firm, and a good demand is reported at ices from 22*s.* to 25*s.* per lb. for Paraguayan on the spot. arrive is quoted at 26*s.* per lb.

ROSEMARY is still scarce, and for Spanish 6*s.* per lb. on e spot is asked, while for forward delivery 5*s.* 9*d.* would accepted.

SANDALWOOD is said to be the only East Indian oil which s not increased in proportion to the value of the pee, and if prices were adjusted they would be at least per lb. in advance of the quotations of Mysore Govern- ent oil. This week 216 cases have arrived from Bombay.

SPIKE.—French variety is firmer at 14*s.* 9*d.* to 15*s.* per lb. r forward delivery. Spanish is quoted at 14*s.* per lb. on e spot, or 13*s.* 6*d.* to 14*s.* per lb. for forward delivery.

THYME.—The *red* is quoted at 14*s.* per lb. for 40 to 45 per nt. phenols; from 30 to 35 per cent. phenols, 11*s.* 6*d.* *hite*, 30 to 35 per cent. content, is quoted at 11*s.* 6*d.*, all ot. For delivery about June 15*s.* per lb. is quoted.

VETIVERT is steady at 50*s.* per lb. for Bourbon and 65*s.* r Java.

AMYL SALICYLATE is difficult to obtain, at prices ranging om 10*s.* to 13*s.* per lb. HELIOTROPIN is offered at irregular ices. From U.S. business has been done at about 27*s.* .f. London. Quotations vary from 32*s.* 6*d.* per lb. to s. 6*d.* to arrive, according to seller. SAFROL can be tained at from 6*s.* to 6*s.* 6*d.* per lb. in one direction. RPINEOL is offered on the spot at prices ranging from 3*d.* to 7*s.* 6*d.* per lb. VANILLIN is quoted at from 82*s.* r lb., being firmer.

French Essential Oils Market.

Paris, February 21.

SINCE my last report the market has been in an excited ndition, due to the sustained rise in prices, many of nich are nominal. The high price of all raw materials r perfumery was due, first, to a great lack of freight; condly, to shortage of labour, and without pretending to recast the future we may estimate prices will hold very m for a long time to come. Shortage of coal prevents e manufacturers in the South of France from distilling gularly. Threats of strikes, the cost of raw materials, and eculation on the exchange rates are the other contributory uses of a very bad outlook, and holders are retaining eir stocks. In the South of France the outlook for the xt crops is also unfavourable. We are threatened with general strike at the time of the rose- and orange-flower rvest in May-June. Almost all flower-owners have joined syndicate, and it is anticipated very high prices will be ked. As for jessamine, the crop of which is collected in ily, 10fr. per kilo. is being asked instead of 2.50fr. to 3fr., nich were pre-war prices. Unfortunately the grease ques- on for pomades will be the same as in 1919. The manu- cturers are unable to get the same good quality of lards prior to the war, and will be bound to use the unsuitable merican sorts.

CANANGA.—Two or three drums have reached French ports, id 135fr. per kilo. is asked for a good brand.

CEDARWOOD.—Owing to the enormous rate of exchange ry few parcels are available; 15fr. to 16fr. per kilo. is noted.

GERANIUM (ALGERIAN).—Stocks are exhausted, and no quotation is obtainable.

GERANIUM (BOURBON).—It is quite impossible to get the drums transported out of Marseilles; sellers are asking 185fr.; the cables sent to Bourbon for quotations remain unanswered. Since the first sale of that oil up to now, never has such a rise and such a dearth in geranium been experienced. It is said the steamer *La Ville d'Alger*, carrying a large quantity, has been destroyed by fire on its way to Marseilles (*C. & D.*, February 21, p. 71).

LAVENDER.—Stock holders are retaining their goods in order to get higher prices; 200fr. per kilo. is asked for oil containing 45 to 50 esters.

LINALOE.—Not an ounce has reached our ports for a year or so.

PETITGRAIN (PARAGUAY).—No quotation; no parcels even in view.

VETIVERT (BOURBON).—185fr. per kilo. is nominal, with no arrivals.

Spanish Essential Oils

THE prevailing tendency as regards prices continues to be in an upward direction, and it is predicted from an authoritative source that no possible decrease is likely in the near future. The 1919 crops of material were poor, as a result of a dry season. Added to this were the difficulties in regard to transport and labour. Another point which is easily overlooked is the fact that Spanish distillers are now for the first time receiving what may be described as an adequate return for their labours. During the war, land which had been left to wild rosemary, spike, and other material was cultivated, and better paying crops laid down. This naturally caused a decreased output of raw materials for essential oils. Labour became scarce, and resulted in competition for workers' services, the result being that cultivators of better paying crops could pay more for workers than those in the essential oil trade. In pre-war days the general rate of pay was pesetas 1.50 to pes. 4 *per diem*. At the present time the rate is from pes. 3.50 to pes. 9 per diem. Mule and cart transport is much dearer, and a new Spanish law has recently been passed sanctioning the increase of railway rates. Landowners also have raised their charges for permission to collect plants. While the 1920 crop, therefore, cannot be estimated, it is probable that prices will remain high, even with a normal output, for the reasons given above.

German Drug and Chemical Markets.

"THE hand of the barometer of German currency unfortunately still points to 'changeable,' often inclining to the left," says the February market of a leading wholesale drug house of Hamburg. "In happy distinction to this, the worth of the German character, after a prolonged depression, has at last improved, and its hand points to the right, with a promise of better weather. With the exception of a small group of those of the left [an allusion to a section of the Social-Democratic party.—EDITOR], German sentiment has never shown since 1914 such a national resoluteness, regardless of all party differences, as is now the feeling with regard to the demand of the Allies for the surrender of the German Army leaders. Strength of character engenders esteem, esteem leads to confidence, confidence creates credit, and credit improves the exchange rate. As yet there is no improvement to record in the drug and chemical markets. Almost every article is increasing in price. Owing to the adverse rate of exchange, orders placed abroad are generally higher in price than when it is possible still to obtain prompt delivery at home. Unsatisfactory conditions are having a cumulative effect on German manufactures, and are leading to increased charges. In certain articles, particularly in fine chemicals, a shortage is soon made apparent by the enormous prices quoted." The following quotations are in marks per kilo.:

ACETYLSALICYLIC ACID is offered in fair amounts at m.250.

AGAR-AGAR.—Japanese in strips, owing to brisk demand, has advanced to m.90.

AMMONIUM BROMIDE has reached m.115, and supplies are becoming scarce.

ANISE OIL is obtainable in small amounts only at m.250.

ANTIFEBRIN is available in sufficient quantities, and has not advanced.

ANTIPYRIN and antipyrin substitute are scarce.

ASPIRIN (genuine) is in good demand at increasing prices.

BENZALDEHYDE (almost free from chlorine) can scarcely be obtained from the makers, and the stocks in dealers' hands are almost depleted: sales have been made at m.220; price still rising.

BENZOIC ACID has changed hands at m.130; supplies from makers are scarce.

BISMUTH SUBGALLATE may still be had in moderate quantities at m.430.

Bismuth Subnitrate has advanced to m.480.

Caffeine (Pure).—Increased demands from home and abroad, coupled with the absence of supplies from makers, have resulted in bringing the price up to m.1,000.

Caffeine Sodio-salicylate and Caffeine Sodio-benzoate are both particularly advantageous at m.600.

Camphor (refined powder).—A small parcel of genuine has arrived, for which orders at the rate of m.600 will be accepted. There is an exceedingly brisk demand. The turnover in camphor substitute for technical uses at m.15 has also increased appreciably.

Citric Acid, in spite of very short supplies, has remained at m.145, but with the approach of warmer weather and the resulting increased consumption, will advance in price. America is a purchaser—a result of Prohibition.

Coumarin now approximates the foreign quotation by realising m.1,500 to m.900.

Cream of Tartar (99-100 per cent.) can be supplied for the present at m.60, but an increase in price is likely in conjunction with the price of tartaric acid.

Geranium Oil.—Only a few kilos. are offered at m.600.

Glycerin is very scarce at m.18, and fresh supplies are difficult to obtain.

Heliotropin is to be found only in small quantities at m.950.

Hexamethylenetetramine has now advanced to m.350, and only moderate supplies are forthcoming.

Hydroquinone is in demand by foreign buyers, and is firm at m.550.

Lycopodium (genuine) is still unobtainable.

Menthol is now so scarce that original cases can scarcely be found. Smaller amounts fetch m.2,300 per kilo., and menthol recryst. m. 2,400.

Peppermint Oil is in remarkably good demand, and now fetches m.760.

Phenacetin is in fairly brisk demand at m.650.

Phenolphthalein has an upward tendency, and there are scarcely any supplies obtainable from the makers.

Potassium Bromide.—A large number of orders are coming in from abroad, and the price for prompt delivery has rapidly advanced to m.120.

Potassium Permanganate is in particularly large request by foreign buyers, and is quoted at m.120.

Potassium Sulphoguaiacolate is now scarce, and there are more buyers than sellers.

Pyramidon and Pyramidon Substitute figure among those articles which have become particularly scarce.

Resorcin (Ph.G.v.) has become scarce, while the technical quality is still obtainable at m.300.

Salicylic Acid has advanced to m.130, owing to brisk demand and declining stocks.

Salol is scarce at m.240.

Sodium Benzoate has been in brisk demand at m.120.

Sodium Bromide has been purchased by foreign buyers at m.115.

Sodium Salicylate is very scarce at m.115.

Tartaric Acid.—The shortage is making itself acutely felt, particularly since manufacturers have practically ceased supplies, and this in conjunction with the increased consumption which will result when warmer weather sets in will inevitably lead to higher prices. It is quoted at m.95 for granular, m.96 for crystals, and m.97 for powder. On account of Prohibition, America is also purchasing this acid.

Vanillin (100 per cent. chemically pure) has now become an expensive article. Very small supplies, coupled with an exceedingly brisk demand, have resulted in creating prices which fluctuate almost daily.

Veronal and Veronal Substitute are in demand, and are very scarce.

Turkish Opium.

In the course of a review of the Turkish opium market appearing in the January issue of the British Chamber of Commerce of Turkey it is stated that, "As a result of speculative manœuvres, the opium market has, over 1919, been subject to violent fluctuations. Taking the statistical position as a criterion the movements, if any, should have all been downwards. Prior to the war the average stock of opium held in Turkey and Macedonia during the month of January rarely exceeded 5,000 to 6,000 cases, yet in January 1919 the quantity available could not have fallen much short of 25,000 cases. No statistics were kept during the war but everything points to the latter figure being as near correct as possible, and the quantity available to-day is probably still considerably above 20,000 cases, which represents three or four years' supply. With a stock of this magnitude before the war the article would not have been worth over 5*s.* per lb., the cost of production in those days. To-day's value is between 18*s.* 6*d.* and 20*s.*, and the reason is not far to seek. Large fortunes were made by natives during the war, who, rather than keep their liquid cash banks or in paper, invested the same in various goo among others, opium. For similar reasons peasants a kept back their produce, and are to-day large holders. T article is therefore in the hands of people who cannot c rectly gauge the position, nor can they realise that soo or later the restrictions against the drug must reduce c sumption to a considerable extent. Before the war t averaged about 7,000 cases annually, but owing to restr tions and the increasing use of the Indian article probabilities are that the maximum consumption of Turk and Macedonian opium will in future not exceed 5,000 cas if it actually reaches that figure. [Much less than 5,000 ca if the opium restrictions are to be rigidly enforced.—Ed.] January 1919 the price of 'druggists'' was 8 liras an o and a few months later, when permission to export w granted, twelve was touched. Large shipments w made, and as they began to arrive at their destin tion prices here dropped to 6.75*l.*T. To-day 8*l.* to 8½*l.*T. is the ruling value, the result of hea purchases by Japan. Prior to the war the lat country used to buy some 400 to 500 cases annua for the Formosan Monopoly, but, so far, her purchases o the past three months exceed 1,500 cases. Everything poi to the reason for these purchases being that Japanese buye foreseeing difficulties in obtaining the drug for smoki purposes as the result of further restrictions by the Pea Conference, both as regards the cultivation of the poppy a the shipment of opium from producing countries, are anti pating events by laying in stocks. It is impossible oth wise to account for their purchases."

Bark and Quinine in 1918–19.

That Mr. W. Bredt, who for many years issued Wide mann, Broicher & Co.'s annual bark and quinine repor has remained in close touch with matters concerning the important products (although apparently not yet established in business) is evidenced by an interesting a able review of the years 1918-19, which naturally covers fa concerning the Quinine Contract that have been dealt wi in the *C. & D.* from time to time. In the course of t review it is stated that the outstanding points of the ye are (1) the clearly perceived pre-eminence of cinchona the Dutch East Indies, (2) the rapid growth of the Ja quinine production brought about by war conditions, a (3) the new contracts and arrangements governing the futu distribution of Java bark. Taking the second point fir Bandong's share in 1914 was a quantity of bark containi 52,000 kilos. sulphate of quinine; it is reported that 1920 this factory will receive the equivalent of 200,000 kil quinine sulphate. The increase in manufacture has be accompanied by goodly profits; for 1911 the ordinary shar received 10 per cent., for 1914, 28 per cent., and for 191 100 per cent. The advantage accruing to Bandong ov other makers by reason of its locality are obvious. T advent of competition on the island need scarcely be feare and although Bandong is reported to be paying part of t profits on its increased production to the Dutch make continued exceptional prosperity seems hardly in doubt. . . A new feature is the appearance of Japan among quinin producing countries. It is stated that certain 'Ja plantation companies have sold their productio amounting, it is reported, to 10 per cent. of t total Java production, to a Japanese concern 10 cents per unit delivered Java ports. Japan is no making offers of quinine at competitive prices, and t various salts are of very fair appearance. The success the undertaking seems to be in some danger owing to a agreement between Japancse quinine importers and an inte national group, the latter to supply the former with a requirements. It is reported that Japan has acquire 800,000 acres of land in the regions of the Upper Amaz (Peru), where, *inter alia*, existing cinchona forests are to b taken in hand and quinine extracted locally. . . . Amor other matters dealt with in the review is the positio of the South American Republics in furnishing cinchon in regard to which it is said, "Cultivation of Calisaya Bolivia and Peru is difficult; whether the rise in valu will produce fresh efforts remains to be seen. The gre forests of wild cinchona are mostly inaccessible." Refe ence is also made to the formation of the British Quinin Corporation and the course of prices during the year, th review concluding with the statement that "For the rel tively moderate quantities released to traders for expo high prices have throughout been readily paid by quinin starving consumers abroad. The universal demand co tinues strong; statistics are favourable for a continuanc of high values, and the Dutch, who dominate the positio can have no particular reason for wishing to lower them The keen search for substitutes, on the other hand, wi continue."

Correspondence

tters for this section should be written on one side of the paper only. The writer may adopt an assumed name 'or purposes of publication, but he must in all cases furnish his real name and address to the Editor.

The Coming Council Election.

SIR,—As a member of the Society, and one of the rge number of pharmacists" "out to get things ne" permit me to thank you for your outspoken article last week, which I respectfully commend to R. Lord fford, especially the latter part. I was afraid that the thcoming election for the Council would be rather a ne affair, but, thanks to Mr. Hugo Wolff, I am hoping t there will be a sufficient number of new candidates ming forward on progressive lines, in order that those of not in agreement with diluting the qualification may ve an opportunity of giving expression to our opinions ough the medium of the ballot-box.

Faithfully yours,
OXFORD. (196/44.)

SIR,—Mr. Lord Gifford is anxious to know what hings" a "large number of pharmacists" are "out get done." I can tell him one thing, and that is to that the old gang on the Council never again get hance of treating their constituents as they treated us ew months ago. We want to remember the fiasco at rringdon Street, the packed meeting at Westminster—cked in more senses of the word than one. We want se men, who will go down to posterity as the creators the "fourteen-guinea chemist," to stand not upon the ler of their going, but to go, and it is up to those usands of pharmacists who were disgusted at the tactics y employed last year to see that they do go. It is use protesting unless we act; we have our chance now, d, to quote Mr. Wolff, let all those who do not wish put their thinking out—like their washing—use this nce.

Yours faithfully,
Leicester. F. T. WILBY.

SIR,—Mr. Gifford asks what "things" a "large num- of pharmacists" are "out to get done"? And there s eloquence fails him! He really ought to know, but ubtless he thinks that nothing remained to be done ter he had been elected upon the Council himself. oblige and enlighten him, however, let me briefly refer a few things that a large number of pharmacists are t to get done. First, they are out to secure the posi- n of the Pharmaceutical Society as the representative ofessional body in British pharmacy. Next, they are t to prevent the Society being wrecked, before that sition is assured, by the frittering away of its powers d funds in the vain attempt to deal with purely trade atters. Thirdly, they are out to avoid further en- achment upon the qualification of pharmacists, by the esing of unjust by-laws or by other means. They are so out to secure the recognition of their business as a ecial trade with peculiar privileges, to endeavour to sure that the training and examination of future phar- acists shall be such as will fit them for their proper siness, to safeguard them when qualified against unfair mpetition by the unqualified, and to see that their muneration is always adequate. In their desire to get ne these and many other things that seem impossible attainment by Mr. Gifford and those who vote with m for unjust by-laws, a large number of pharmacists e at one with my good friend Frank Hines, to whose im for support I ventured to direct attention a fort- ght ago. There is no doubt in my mind that he will returned at the election in May next, but a large mber of pharmacists, including myself, are out to secure possible that he shall not be returned alone as a pro- essive pharmacist of the best type. He requires six lleagues of the right kind to get things done, and a large number of pharmacists are out to provide him with those colleagues if suitable men or women can be induced to accept nomination and present themselves for election in due course.

Yours faithfully,
HUGO WOLFF.

SIR,—Your editorial on "Registration of Apothecaries' Assistants" (*C. & D.*, February 21, p. 60) is very instructive, and should open the eyes of the members of the Pharmaceutical Society to the power for the good or otherwise of pharmacy which they place in the hands of councillors. In this respect we are masters of our own destiny and guardians of the destiny of future generations of chemists. Surely we can put up six "good men and true" to win the seats at the oncoming election. Let that same spirit as was exhibited in the "Battle of the By-law" be again manifested in this contest, and victory will be sure. A word of thanks is due to the *C. & D.* for bringing up this matter in good time, and no doubt succeeding issues will keep readers fully conversant with "Who's Who."

Yours truly,
SCOTUS. (6/91.)

By-Law Protest Committee.

SIR.—A statement of account and balance-sheet has been submitted to the By-law Protest Committee by the treasurer, and approved. For the information of the subscribers the Committee are desirous that some particulars regarding the state of the fund may be published. We shall be glad, therefore, if you will find space in your correspondence columns for this announcement. The subscriptions amounted to 113*l.* 7*s.*; the total expenses incurred by the Committee were 84*l.* 9*s.* 8*d.*, the balance in hand being 28*l.* 17*s.* 4*d.* The Committee have resolved that the balance in hand shall be given to the Orphan Fund of the Pharmaceutical Society, failing an intimation to the contrary from the majority of the subscribers prior to March 1.

Yours faithfully,
A. R. KEITH, M.P.S., Chairman,
HUBERT B. FIGG, M.P.S., Secretary.
By-law Protest Committee.
262 High Street, Berkhamsted.

Timing Dispensing.

SIR,—Will you kindly allow me a little space in which to reply to "Xrayser II.'s" adverse criticism of my article on "Timing Insurance Dispensing"? He states that I have exaggerated all the items. Easily said, but will he please prove it? I am prepared to substantiate my figures to the fullest extent, by actual demonstration if necessary. He mentions in particular my estimated figure for overhead expenses—viz., 11*s.* 3*d.* per day, 67*s.* 6*d.* per week—as being hopelessly incorrect. I think I could find him hundreds of establishments where such figures would easily hold good. My present position is that of a "single-handed" chemist, and there are very many such. I will take three items of expense only—rent, rates, and taxes, including house duty, and wages of full-time boy or shop-help. These three items alone in the average single-handed chemist's business would, I think, amount to 50*s.* to 60*s.* per week. This does not leave much allowance for the multitude of other overhead expenses, does it? My own expenses are considerably over 67*s.* 6*d.* per week, but I purposely gave a low figure in order to avoid any possibility of overstating the case. "Xrayser II." says I am "putting the whole weight upon one single department, the dispensing." Why not? It must be obvious that if a single-handed chemist is dispensing he cannot possibly be doing anything else at the same time. And overhead expenses have the characteristic of persistently ticking off, hour after hour, whether one is serving customers, dispensing, or even possibly doing nothing, waiting for the next customer, Insurance or otherwise. Chemists may, by their enterprise and individuality, build up considerable business and employ several assistants, departmentalise their activities, and thereby reduce the average expenses for each department. What right has the Government to step in and rob such of the fruits of their own organisations? Or, to put it the other way round, what right has the Government to offer terms to the single-handed

chemist which can only, if at all, be moderately satisfactory to the chemist with an organised and considerable business? It is not necessary for doctors to organise their establishments and employ several assistants in order to get satisfactory terms. A doctor is well paid for his personal services, why not the chemist for his? "Xrayser II." further makes the astonishing remark that chemists will "never get" paid at the rate of 4*s*. 6*d*. or 5*s*. per hour, inclusive of expenses. Why, chemists are paid more than that already—namely, 5*s*. 4*d*. per hour—that is, on the original assumption that twelve extemporaneous medicines can be dispensed per hour. The object of my article was to prove that twelve ordinary medicines per hour was an impossible average, and that consequently chemists are grossly underpaid. Taking everything into consideration, my figures gave a result of five and a-half medicines per hour. All I ask panel chemists is that they take strict notice of the time required for dispensing in their establishments, making due allowance for every factor necessary to the work, always remembering that it is the ordinary extemporaneous medicines upon which payment is now based at twelve per hour—"stock" mixtures being paid for at a lower rate. Then at the first opportunity chemists would be able to submit their case on sound mathematical grounds, and give conclusive facts and figures which no one could gainsay. Insurance dispensing should be the best work, finished off as ordinary dispensing is. Good service should come before speed. For this to be the case chemists must be well paid and a full measure of time allowed for the work. The public would reap the benefit of a much-improved service, rendered in good spirit, which in itself would stimulate faith and confidence in their medicines and minimise complaints, and at the same time uphold the self-respect of the chemist. Yours faithfully,

W. H. Harris.

"Preposterous."

Sir,—"Xrayser II." is fully entitled to his little joke (quite worthy of "Punch") under the above heading, and his moral is excellent. It is only fair to my Committee, however, to point out that there is a clerical slip in the report as it appears in the *C. & D.*, February 14, p. 67. The report should read: "After Mr. March had reported on the recent Conference, Mr. P. F. Rowsell explained what the terms amounted to in practice, and a resolution was then passed," etc.

Yours faithfully,

F. Southerden,

Secretary, Devon Pharmaceutical Committee.

Sir,—"Xrayser II.'s" criticism of the methods supposed to have been adopted by the Devon Pharmaceutical Committee in recommending adoption of the new Insurance dispensing terms is perhaps justified by the report of the meeting as published, though one knowing Devonshire men would not have come to his conclusion. Will you allow me, as chairman of the Committee, to state that the proceedings at the meeting in question were in the following order: (1) As panel delegate, I gave a full report of the two sessions of the Conference, occupying about ten minutes; (2) discussion followed; (3) a vote was taken; and (4) Mr. Rowsell, whom we are always delighted to hear, because of his full knowledge of all things pharmaceutical, crossed some t's and dotted some i's.

Yours faithfully,

Torquay. Fredk. March.

The Ferments of the Thyroid Gland.

Sir,—Experimenting with thyroid-gland substance, I find that it excites fermentation in saccharine solutions. Has this been noted before? Is it due to a specific ferment, or to the mere "meatiness" of the powder?

Yours truly,

Dublin. J. C. McWalter.

Claims Against the Pos -Office.

Sir,—In connection with your reply in the Legal Queries Column of the *C. & D.*, February 21, p. 75, it may not be out of place to give our experience of a similar claim. We sent a parcel, value 5*s*., containing a bottle of lotion, to a lady in Lancashire; it was not delivered, and we handed in a claim with the local post-office people, and they paid it quite without difficulty. We ought, however, to add that we use Abel Heywood's (Manchester) Parcel-post Book, and get a receipt (quite free) for every postal parcel we send out. The use of such a book is quite invaluable, and it also checks off the postage on each parcel. We do not think any claim would be considered unless the sender held a receipt from the post-office people. Yours faithfully,

Uttoxeter. G. R. Hankinson & Son.

Homœopathy.

Sir,—There are several statements made by "Medicus" (*C. & D.*, February 21, p. 74) to which I take exception. He has no grounds for stating that medical students are "spoon-fed." In these enlightened days every possible encouragement is given to medical students for individual research and investigation, and three-quarters of their work is practical. Medical men of to-day are making remarkable strides in every direction, and the average student is not content merely to "imbibe the views of his teacher." I have had plenty of experience of homœopathy, and the results have not been encouraging. The fact that there are chemists who believe in and "practise" it is probably due to the enormous profits made on its sale. America has been quoted as a stronghold of homœopathy, but actually something under 2 per cent. of the medical men there practise homœopathy and their number is decreasing.

Yours faithfully,

Chellmit. (196/33.)

What is Grey Powder?

Sir—The grey-powder question is one which has cropped up before, some years ago, and I met the difficulty by diluting the hyd. c. cret. with sacch. lact.; the powders are then weighed out according to age and labelled

> GREY POWDER (with Sugar)
> for
> —— years —— months.

This has so far been satisfactory, and, I should think, would meet the case quite well.

Yours faithfully,

Hyd. c. Sacch. (182/79.)

A Medical Anomaly.

Sir,—Doctors are agitating for a fee of something like 13*s*. 6*d*. per patient per annum, exclusive of medicine and medical appliances, for all National Health Insurance panel patients. If that is so, it is surely an anomaly, if they contract with another Government department to give professional attendance, and also to provide medicine, etc., for an inclusive sum, I am told, under 9*s*. per patient per annum. I refer to postal workers. Can any reader say if that is correct? Also, under the National Insurance Acts panel patients have a free choice of their medical attendant, and also a free choice as to where they go to get medicine, etc., dispensed; but postal workers seem to have no choice as to doctor or chemist. If that is correct, it seems a most anomalous position. Why should one section of the public have a free choice in such an important matter and another section be fettered? Yours, etc.,

Curious. (10/20.)

Billiards Tournament Suggested.

Sir,—I should like to offer a cup value 5*l*., or give half-share of one of the value of 10*l*., for a Billiards Tournament, in which the competitors are connected with wholesale and retail pharmacy. I should be glad to do all spade-work connected with the tournament if necessary, such as finding a suitable hall for the heats to be played, arranging the handicaps, etc. I am of the opinion that a tournament would be welcomed among chemists and serve as a pleasant distraction and recreation from our daily work. I should be glad if any of your readers to whom the idea appeals would communicate with me.

Yours faithfully,

18 Bury Street, London, W.C. 1. F. F. Curtis.

Are Chemists Bound to Dispense?

We have received several letters in reply to Dr. McWalter's printed in the *C. & D.*, February 14, p. 75. We do not propose to print these, as the controversy has already been protracted and the subject is one which Dr. McWalter has announced his intention of raising at the Council-meeting of the Pharmaceutical Society of Ireland.

Medicinal Liquid Paraffin.

Sir,—In the account of Mr. Sidney Jamieson's lecture to the Western Pharmacists' Association (*C. & D.*, February 21, p. 66) I see that he states that the source of liquid paraffin is immaterial to the patient. While fully agreeing with Mr. Jamieson that medicinal liquid paraffin is a definite chemical compound, it is well known to pharmacists behind the counter that many regular consumers demand a Russian oil. If such a customer is supplied with an American oil, even when packed on the premises with the same bottle and label, he is able to tell, on taking it, that it is not the Russian variety, as, for some reason I cannot explain, other kinds appear to upset the stomach, although chemically the same.

Yours faithfully,

Russanol. (191/61.)

Sanatorium Benefit Scripts.

Sir,—On looking through the *C. & D. Diary* just to hand, which, by the way, is a pleasant reminder that we are once again living in a land of peace, and is a pleasing return to the familiar pre-war editions, my attention was arrested by the notes on sanatorium benefit (p. 285). I am afraid I must plead guilty to ignorance of the fact that the schedule of appliances did not apply to S.B. scripts, and I have no doubt many other pharmacists are in the same condition, or perhaps my faculties have been a little obscured by the slight clouds raised by various disallowances for appliances supplied on ordinary scripts. This ruling certainly gives a very large field, and if you open, say, a Maw's catalogue, you experience a temporary vertigo at the idea of what might be ordered. Does this rule apply to scripts written on the special tuberculosis forms and to ordinary scripts marked S.B. as well?

Yours faithfully,

Sick Bay. (187/29.)

Australia and British Chemical Makers

The following letter (179/11) has been sent to us for publication by the London agents of a New South Wales drug-house:

"In reply to yours of September 2, enclosing a cutting from 'The Times' in regard to English 'key' industries and asking our opinion thereon, we send you these few notes on the matter as it appears to us. We think the Government right, absolutely so, but something should be done to prevent the disgraceful profiteering by British manufacturers, for their own good and therefore for the Empire. Descending from the abstract to the concrete let us take the case of vanillin. As you are aware this was purchasable in Britain for about 45*s.* before the embargo; to-day we are quoted 90*s.* per lb. by a London firm for indent delivered into store. We can still buy at about the old price from America, and have just bought some in Sydney for 60*s.* The British merchant should have no cause to think deeply about the exportation of goods from Hamburg for two reasons: (1) All such are absolutely prohibited from entry into Australia; (2) England is quite able to supply by help of our preference tariff if her manufacturers will let her. You ask for our views on the exportation of enemy manufactures to Australia. Putting aside the above prohibition we wish to have no dealings with them except when such are absolutely unavoidable, and we fully expect our new tariff to make it almost impossible to do so; at least we fervently hope so. In conclusion, we view with apprehension the daily increase of costs from Britain. Many of these lines we are beginning to manufacture at much lower prices for ourselves—viz., coal-tar products, such as carbolic acid, cresylic acid, naphthalene, etc., also castor oil, linseed oil, glass bottles, indiarubber goods at 30 per cent. to 50 per cent. below British f.o.b. prices."

Legal Queries.

A. T. (187/24).—Sugar of lead is not a scheduled poison, but it should be labelled "Poison" when sent out from a chemist's shop.

J. C. (190/26).—Assistants of the Apothecaries' Hall of Ireland are not entitled to registration as chemists and druggists without examination under the new by-law of the Pharmaceutical Society of Great Britain.

E. J. N. & Co. (194/72).—There is no legal standard for the amount of salicylic acid that may be used as a preservative in non-alcoholic wine. The cases in which prosecutions have taken place show a great variety of decisions.

N. H. I. (191/22).—Complaints as to neglect of patients by panel practitioners should be made to the Insurance Committee, who will cause an investigation to be made. We do not think that the fact that the partner of a panel practitioner attended an Insurance patient is a very serious cause of complaint.

T. W. C. (189/14) holds a lock-up shop, at a weekly rent, "clear of all rates," the remainder of the building being let as flats. The rates are assessed upon the building as a whole; can the landlord compel "T. W. C." to pay a proportion of an increase in the rates? [It is not clear whether, under the tenancy agreement, "T. W. C." or his landlord pays the rates; but in any case it is obvious that "T. W. C." will have to comply with the landlord's demand, otherwise he is liable to be evicted.]

W. H. R. (195/1) is tenant of a combined shop and dwelling-house at a yearly rent of 25*l.*, paid quarterly. He has recently received from his landlord notice increasing the rent to 30*l.* Can payment of this increase be enforced? [In the first place the rent cannot be increased until the existing tenancy has been terminated by notice. The length of notice to be given depends upon the terms of the tenancy. If it is a yearly tenancy, six months' notice, terminating upon an anniversary of its commencement, must be given. Further, so far as the dwelling portion of the premises is concerned, "W. H. R." is entitled to the protection of the Increase of Rent (Restrictions) Acts, which prevent the landlord from increasing the rent, except under certain circumstances, until six months after "the end of the war," which has yet to be fixed in this connection. Even at the expiration of that period the maximum increase allowed is 10 per cent. If the landlord persists in his demand, "W. H. R." should consult a solicitor.]

S. (164/57) went into partnership with his present partner on April 1, 1919. Each had been in business on his own account prior to that date, and both businesses are now the property of the partnership. In making his return for income-tax this year, "S." returned the average of the three years' profits made by him in his old business prior to the partnership, but the Surveyor of Taxes claims to assess him in respect of the joint profits of the firms during the three years prior to April 5, 1919. "S." asks if this is correct. [The Surveyor appears to be right. This is the case of what is called by the income-tax Acts a "succession" to the two businesses by the partnership firm. Where that takes place the assessment is made on the average profits of the business in the three years prior to the succession, and where two businesses are amalgamated, as here, the profits for the first year of the partnership concern are taken as the average three years' profits of the old concerns. Next year the assessment will be on the average of the two years' past profits of the old concerns and of the one year's profit of the partnership, and so on. But although the assessment is made on the firm, each partner can be treated separately for the purposes of abatement, allowances, or the like. And if for some specific cause the joint business has fallen off since the partnership was entered into, an allowance can be claimed for this.]

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Supply of Ergot to Nurses.

E. S. (186/26) asks: Is it advisable to supply a certificated midwife with ext. ergotæ liq. provided the regulations in Part 1 of the Poisons Schedule are carried out? Your opinion concerning this will be appreciated.—[Provided the provisions of the Pharmacy Act are carried out the sale of liquid extract of ergot is legal, but we do not think it advisable to sell the drug to nurses without a doctor's prescription. The opinions of our readers are invited.]

Treatment of Chilblains.

The most up-to-date and successful treatment for chilblains is by means of ionisation with copper sulphate. The patient's affected hand or foot is immersed in a hot 1-per-cent. solution of copper sulphate; the positive terminal of an electric switchboard is connected with a copper electrode and placed in the solution; the indifferent electrode, well padded, may be applied to a distal surface of the patient's body and the continuous electric current switched on gradually. Usually a strength of between 5 and 10 milliampères of current is sufficient. (151/41.)

What is Octarius?

"W. H. K." (*C. & D.*, January 31, p. 95) must exercise care and translate Oss. as it should be, and should not worry what his neighbour does in view of the presence in our midst of the Sale of Food and Drugs Acts inspectors, the pharmaco-city analyst, and the Profiteering Acts. Many years ago this same question exercised the minds of Birmingham pharmacists, and the late Mr. G. E. Perry, an Edgbaston pharmacist of high degree, inquired from the General Medical Council which should be used, and the reply was very emphatically TEN fluid ounces. My fear is that Oss. is confused with Hss., the latter being 8 fluid ounces.—*Tidley* (9/97).

Children's Fever Cure.

Incognito (126/42) writes: "There was a query in a recent issue of the *C. & D.* with regard to the safety of the fever cure in which ac. nitric fort. 3j. is used with water 7 oz. and peppermint-water 1 oz. (8 oz. in all). During the Select Committee on Patent Medicines an advertised fever cure was stated to contain 59 minims of strong nitric acid in an 8-oz. bottle of water flavoured with peppermint. Many thousand bottles prepared as above have been sold recently, and, so far as I know, with safety. I believe that the physiological result is that nitric acid is reduced to nitrous acid, and that this has the specific action of the nitrites (*i.e.*, spt. æth. nit. and amyl nitrite)—*i.e.*, the peripheral vessels are dilated, with consequent loss of heat from the body."

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Caywar (174/62).—Solid Brilliantine.—

Castor oil	15 oz.
Spermaceti	4 oz.
Bergamot oil	2 dr.
Palmarosa oil	1 dr.
Geranyl acetate	30 drops.

Melt the spermaceti, add the castor oil, allow to cool somewhat, then incorporate the perfumes.

J. W. (27/2).—Book on Radiography.—The standard work is Knox's "Radiography and Radio-therapeutics," in two volumes. It is published by A. & C. Black, Ltd. The first volume (21s.) is the one dealing with apparatus and methods of using.

A. C. S. (188/11).—We do not know of any book devoted to the manufacture of crystals.

T. E. B. (184/45).—Motorists' Hand-cleaners.—The following are formulas for motorists' hand-cleaners:

1. Powdered soap	7 oz.
Waterglass	2 oz.
Pumice-powder	1 oz.
Kaolin	10 oz.

Make into a paste.

2. Soft soap	3 oz.
Turpentine oil	1 pint

Melt the soft soap in an evaporating-dish. Remove from the fire, and add the turpentine little by little, with constant stirring. For use, a little is rubbed on the hands, then removed with warm water.

Glycerin could be added if desired.

M. J. H. (191/27).—Water-glass as an inorganic chemical is not readily decomposed. On keeping, the solution often becomes thicker; but this is not disadvantageous.

S. G. (191/48).—Ginger-beer Plant.—The sample you send is known as the ginger-beer plant, and has been referred to on several occasions in the *C. & D.* It is a symbiotic ferment, small pieces of which added to a solution of sugar or treacle and kept in a warm place produce in twenty-four hours an effervescing liquid often called "wine." The life-history of the plant was investigated by Dr. Marshall Hall in 1891 and 1892. It consists of a yeast (*Saccharomyces pyriformis*) and a bacterium (*B. vermiforme*), and can be preserved in a dry state.

Red Squill (194/57).—There is not much advantage in adding barium carbonate to a liquid preparation of extract of red squill, as the powder would separate and in time be difficult to diffuse through the liquid.

L. W. Ltd. (188/65).—Inf. Gentianæ Co. Conc. (1-7).—Farr and Wright's formula is as follows:

Gentian (in No. 10 powder)	10
Dried bitter-orange peel (in No. 10 powder)	10
Tincture of lemon	10
Tincture of orange	5
Alcohol	17.5
Chloroform water (1 in 1,000) to	100

Moisten half of the drug with chloroform-water, after two hours pack in a percolator and percolate with chloroform-water. Moisten the second half of the drug with the first percolate. Continue repercolation until 65 parts of second percolate is obtained. Add to this tinctures and alcohol, continue repercolation with chloroform-water, evaporate to 2.5, add to reserve, and filter.

Retrospect of Fifty Years Ago

Repriated from "The Chemist and Druggist," Feb 15, 1870.

The State and Scientific Instruction.

On February 4 a deputation, consisting of members of the Council of the British Association for the Advancement of Science, waited on the Lord President of the Council and the Right Hon. W. E. Forster, M.P., to urge upon them the appointment of a Royal Commission to inquire into the relations of the State to scientific instruction and investigation, and to represent to them the conviction of the Council that no such inquiry will be complete which does not include the action of the State in relation to scientific education, and the effects of that action upon independent educational institutions. The following gentlemen composed the deputation: Professors G. G. Stokes, President; J. F. Bateman, F.R.S.; Warren De la Rue, F.R.S.; Douglas Galton, F.R.S.; Francis Galton, F.R.S.; J. P. Gassiot, F.R.S.; W. R. Grove, F.R.S.; T. A. Hurst, F.R.S.; J. D. Hooker, F.R.S.; T. H. Huxley, F.R.S.; A. C. Ramsay, F.R.S.; W. A. Miller, F.R.S.; W. Spottiswoode, F.R.S. Lieutenant-Colonel Strange, F.R.S.; Colonel Sykes, F.R.S. J. J. Sylvester, F.R.S.; T. Thomson, F.R.S.; and A. W. Williamson, F.R.S.

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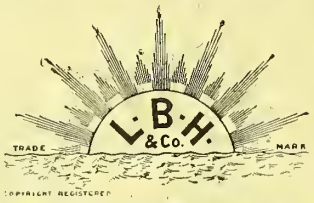
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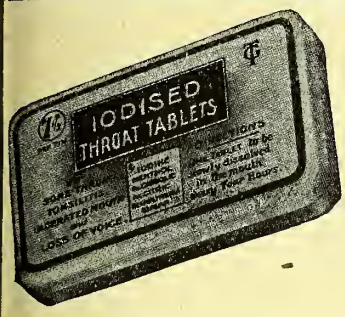
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Cascara Tablets, gr. ii, pearl-coated, per 1000, 5/-; in card boxes—25's, 2/-; 50's, 3/9; 100's, 6/9 per doz.

Formalin Tablets, contains ⅟₇-gr. Paraformaldehyde, per lb. 3/0; in screw-cap bottles, 50's, 7/6 per doz.

Bismuthated Magnesia Tablets, per lb., 3/3; in screw-cap bottles, 50's, 8/0 per doz.

Pine Tablets, 2/3 per lb.; 2-oz. cartons, 3/9 doz.

Sulphur Tablets with Cream of Tartar, 2/- per lb.

Indigestion Tablets (Heart shape), 2/6 lb.; 2-oz. cartons 4/- doz.

Boat-shape Feeding Bottles, each in box, complete with transparent teat and valve, 9/- per doz.

Paper, Double Demy, 22½ × 35, 24/- per ream.
,, Nature Brown Cap, 18 × 28, 7/- per ream.

Aspirin	P.B. 7/6 lb.	Ol. Olivae Cream Sublime	24/- gal.
Acid Tartaric Pulv. or Xtal.	P.B. 3/9 ,,	Paraff. Liq. P.B.	16/- ,,
Cream of Tartar 99%	P.B. 3/- ,,	Sodii Salicyl. P.B.	4/- ,,
Acid Citric	P.B. 5/- ,,	Camomile Flowers	2/6 lb.
Magnes. Carb. Pond	P.B. 1/3 ,,	Senna Pods	10d.,,
,, ,, Levis	P.B 1/- ,,	STICK JUICE 2 oz. STICKS, PURE	4/9 ,,
Naphthaline Marbles	8d. ,,	French Chalk Pulv. 3d. & 4d.	,,
Magnes. Calc. Levis	P.B. 2/6 ,,	Genuine Carraway Seed	10d. ,,

£3 value, exclusive of Saccharin tablets. Carriage Paid. Cash with order. Postage charged on Saccharin tablets.

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February, 1920.

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OL. LIMONIS.—1 lb. at **9/-**, 7 lb. at **8/9**, in 1 lb. bots. at **4d.** each.

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CHLOROFORM B.P.—At **3/9** lb., in 1 lb. bots. at **6d.** each.

GLUCOSE.—**9d.** lb., in 2 lb. bots. at **6d.** each.

OL. TEREB. RECT.—**2/-** lb., in 2 lb. and 4 lb. bots. at **4d.** and **6d.** each.

HYD. AMMON. CHLOR.—**9/6** lb., 7 lb. **9/3.**

PARAFF. LIQ. B.P.—**11/-** gal.

SUGAR OF MILK.—**2/6** lb.

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You *could* sell nearly every customer a jar of Resinol.

Try it to-morrow, and note the pleasant increase in the day's sales. Instruct your assistants to ask each customer if he has ever tried Resinol, and then to explain how it is a soothing, healing, antiseptic ointment, not only for Eczema, Pimples, and other skin troubles, but *invaluable* in every household for those constantly occurring rashes, chafings, cuts, bruises, burns, and a score of other uses. It takes the pain out at once, and stops itching instantly. With every sale of Resinol Ointment for *any skin trouble* you should also sell a cake of *Resinol Soap*. The patient should bathe the affected surface with Resinol Soap and hot water before applying Resinol Ointment.

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2/6 ,,	- - -	22/- ,,

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5/- ,,	- - -	48/- ,,

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AND WE HAVE ALSO

1/6 size (double the 1/-) at 9/- per dozen, and
2/6 „ („ „ 1/6) „ 18/- „ „

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£3 and upwards Carriage Paid.

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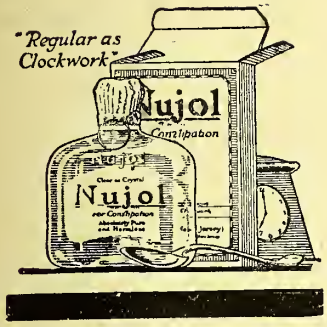
P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

February 28, 1920.

The following revised prices are now in force:

Advertised Price.		Minimum Retail Price.	Minimum Wholesale Price.
2/6	**"Allenburys" Milk Food,** No. 1...	2/6	24/– doz.
5/–	,, ,, ,, ...	5/–	48/– ,,
2/6	,, ,, No. 2...	2/6	24/– ,,
5/–	,, ,, ,, ...	5/–	48/– ,,
2/6	,, Diet	2/6	24/– ,,
5/–	,, ,, ...	5/–	48/– ,,
(Gummed labels quoting revised prices supplied on application.)			
8d. tab.	"Allenburys" Milk Food Chocolate	8d. tab.	12/10 box of 2 doz. tabs.
1/3 tab.	,, ,, ,,	1/3 tab.	12/– box of 1 doz. tabs.
2/6	,, Saline, bottles ...	2/6	22/6 doz.
4/6	,, ,, ...	4/6	40/6 ,,
2/6	"A. & H." Effervescent Preps., bots.	2/6	22/6 ,,
6/–	,, ,, ,,	6/–	54/– ,,
	(9/– size discontinued.)		–
Large	**Contrexeville-Pavillon Water**	18/– doz.	15/– ,,
,,	,, ,, ,, (50)	70/– case	60/– case
Small	,, ,, ,,	13/3 doz.	11/– doz.
,,	,, ,, ,, (50)	52/– case	44/– case
9 oz.	**Nujol**	3/–	25/6 doz.
16 ,,	,, ...	4/6	36/– ,,
20 ,,	,, ...	6/–	51/– ,,
(Less 7½% discount on 4 case lots, or 10% on 5 to 9 case lots.)			
1/–	**Tetlow's Swandown Face Powder**	1/–	8/– doz.
	Warrick Bros.' Preps.:		
10½d.	Chanticleer Throat & Voice Pastilles	10½d.	6/– ,,
1/6	,, ,, ,, ,,	1/6	11/– ,,



41½%

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Write for quantity discounts, the more you buy the more you make. The market for **Nujol** is one you cannot afford to overlook.

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"Keep Nujol on the eye-line."

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WHOLESALE PRICES.

Beecham's Pills:

1s. 3d. size	**10s. 6d.**	per doz. net.
3s. 0d. „	**26s. 6d.**	„ „
5s. 0d { new size ... contains double the quantity of 3/- box.	**50s. 0d.**	„ „

Beecham's Cough Pills:

1s. 3d. size	**10s. 6d.**	„ „
3s. 0d. „	**26s. 6d.**	„ „

Orders: Minimum quantity £5 value—approximately. | ***Packages FREE. Carriage PAID.***

These Prices are the lowest no matter what quantity is ordered.

TERMS: CASH WITH ORDER.

Cheques to be made payable to **THOMAS BEECHAM**, and crossed "Parr's Bank, Ld., St. Helens."

"YADIL" ANTISEPTIC PREPARATIONS.

"Yadil" is often prescribed as T.M. allylic carbide.

Revised Prices now in force. All previous prices cancelled. New Prices on the P.A.T.A.

LIQUID—

Sizes	2 oz.	6 oz.	20 oz.	40 oz.	80 oz.	160 oz.
Retail ...	2/-	3/6	9/6	17/-	30/-	55/-
Chemists' prices, per doz.	17/6	31/-	84/-	152/-	288/-	528/-

JELLY—

Sizes	8 oz.	16 oz.
Retail	5/-	8/3
Chemists' prices, per doz.	44/6	73/6

ELIXIR and CREME DE MENTHE—

Sizes	6 oz.	20 oz.	40 oz.	80 oz.	160 oz.
Retail ...	5/-	13/6	25/-	45/-	70/-
Chemists' prices. per doz.	45/-	121/-	223/-	399/-	675/-

OINTMENT—

Sizes	1 oz.	8 oz.	16 oz.
Retail	1/3	8/3	16/-
Chemists' prices, per doz. ...	11/-	73/6	156/-

PASTILLES—per Tin, Retail 3/6. Chemists' Prices, per doz. 31/6.

The Liquid, Ointment and Jelly are also put up under Green Labels for Veterinary purposes. Sizes and Prices same as above.

All orders must be sent to Wholesale Firms. No free samples given.

Clement & Johnson, 19 Sicilian Avenue, London, W.C.1.

The word "Yadil" is registered in all important countries as a Trade Mark for our Trimethenal allylic carbide.

ÉTABLISSEMENTS CHATELAIN,

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Sole Manufacturers of

JUBOL

RE-EDUCATION OF THE INTESTINE.

Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c.

Price 5/- per box.

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POWERFUL BLOOD TONIC.

Anæmia, Nervous Exhaustion, General Debility; Tuberculosis Convalescence, etc.

Price 5/- per bottle.

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POWERFUL URINARY ANTISEPTIC.

Cystitis, Prostatitis, Catarrh of the Bladder, Renal Tuberculosis, etc. etc.

Price 5/- and 11/- per box.

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SCIENTIFIC SUPPOSITORIES

For Hæmorrhoids, Rectitis, Anal Fistula, etc. Anti-hæmorrhagic, Sedative, De-congesting.

Price 5/- per box.

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POWERFUL URIC ACID SOLVENT.

Rheumatism, Gout, Arterio-sclerosis, Stones, Gravel, Sciatica, Neuralgia and all Uric Acid disorders.

Price 5/- and 12/- per bottle.

VAMIANINE

New Scientific Preparation for Chronic Skin Affections, Psoriasis, Eczema, Acne, etc.

Price 11/- per bottle.

SINUBÉRASE

SCIENTIFIC PREPARATION OF LACTIC FERMENTS.

Indicated in Intestinal Disorders, Dysentery, Diarrhœa, Dyspepsia, Enteritis, Typhoid, Skin Eruptions, etc., etc.

Price 5/- per bottle.

FANDORINE

Metrorrhagia, Dysmenorrhœa and Lactation, Pains, etc. etc.

Price 5/- and 11/- per bottle.

GYRALDOSE.

Antiseptic for local Gynæcological use.

Price 4/- per box (powder)
" 5/- " (tablets)

FILUDINE

SPECIFIC FOR THE LIVER.

Malaria, Diabetes, Cirrhosis, Sluggish Liver, Tuberculosis, etc.

Price 11/- per bottle.

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Wholesale 30/- per doz., Retail 3/- each.

Each bottle (1 oz.) carries instructions to the chemist to make up to the following Standard Formula—

Liq. Barkola Comp., 1 oz.; Tincture of Gentian, 1 oz.; Syrup of Rhubarb, 1 oz.; Syrup of Ginger, 5 oz.

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HEALTH SALT. Tins 4 oz. approx.

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2-oz. sticks 4/4½ lb.

7-14 lb. 4/3 lb. 28 lb. 4/2 lb.

Ol. Junip. Liq. Opt.

7/6 lb. 3 lb. 7/3 per lb.

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Supplied with FREE VAPORISER in each carton.



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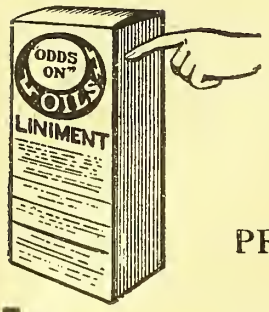
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Sole Makers:—

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NOW on the P.A.T.A.



"ODDS ON" OILS

The "Liniment" Line to handle.

PROFITS PROTECTED—WIDELY ADVERTISED
BIG INCREASING PUBLIC DEMAND.

Retail Prices: 1/3, 3/- & 8/- Bottles.

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Sent on application.

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The genuine remedy for
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Less Window Show Allowance	0 5 0	
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BONUS—1 doz. Free...	0 15 0	
	£5 5 0	

Sells for ...	£5 5 0
Costs... ...	3 4 0
Profit	£2 1 0

= 64%

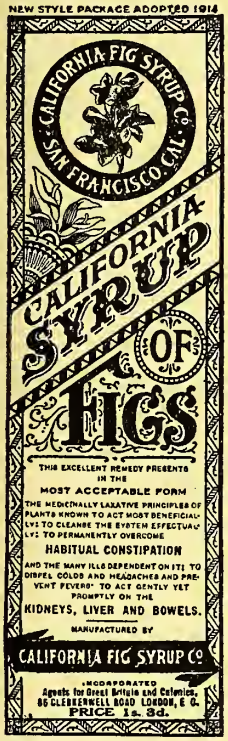
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California Syrup of Figs is an ethical preparation and gives a greater satisfaction to customers than any other similar laxative. It is endorsed by the Medical Profession and can be recommended with confidence.

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FINE LEAF GELATINE
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(In 1 lb. Packets.
112 ×1 lb. Packets to Case.)

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November 12th, 1918.

DEAR SIRS,—For many years I have watched the introduction of headache specifics and subjected them to both analytical and clinical tests, but have never felt inclined to approve of their composition or effects. I must admit, however, that your new formula for the "Daisy" Headache Cure merits my complete approval, and I am especially pleased to note that you have replaced the depressing ingredient, acetanilid, by an infinitely safer and more certain principle, free from any possibility of causing injury to the system. I lay great stress both on its efficiency and safety, and am constrained to compliment you on your commercial courage in placing an unusually costly formula, at a reasonable charge, at the command of the public.

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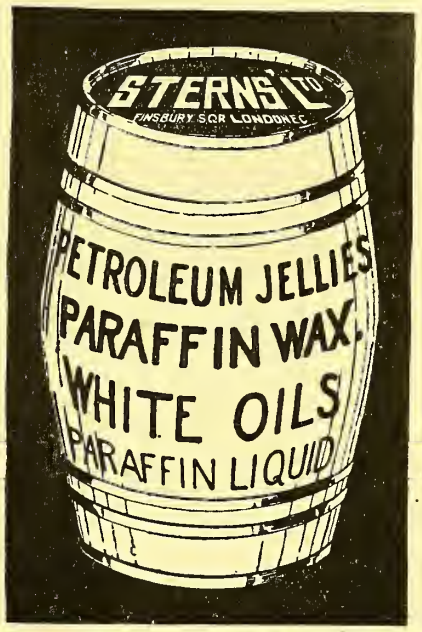
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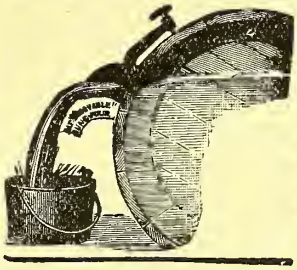
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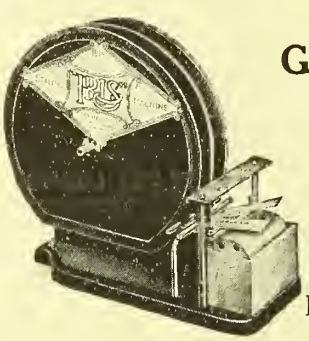
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It makes milk digestible and is invaluable in cases of malnutrition.
It is a thoroughly reliable line and one that brings a handsome return.

Price 1/- & 2/6 per tin. *Samples and advertising matter free on application.*

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possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

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Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

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4/3 „ „		40/9 „ „
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For Babies from Birth. Instantly prepared by adding hot water only.

2/6 Tins (containing 10-oz. net), **23/4** per dozen net.

Terms: As for Neave's ordinary food, but carriage paid on 2 dozen.

DOCTOR——, D.Sc.Ed., B.Sc., M.D., M.B., C.M., D.P.H. (Park Lane, W.), writes: "My baby girl is thriving admirably on your Milk Food . . . The mother was unable to feed her and previously tried other infants' foods without success." "... I take every opportunity of recommending both your Milk Food and Cereal Food as the best scientific preparations where breast feeding is contra indicated."

Profit on all lines: 28% on cost or 22% on selling prices.

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For Expectant and Nursing Mothers, Invalids and Dyspeptics.

2/- Tins (containing 12-oz. net), **18/8** per dozen net.
6/- „ „ 36 „ „ **56/-** „ „

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The diet provides full and exact nourishment at the expense of small exertion on the part of the digestive organs. It is meeting with much success in cases of general debility and the various forms of dyspepsia

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Aqua Amygd. Amar. Conc. (U.S.)	Aqua Cassiæ Conc.	Aqua Pimentæ Conc.
,, Anethi Concent.	,, Flor. Aurant. Conc.	,, Pulegii ,,
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,, Caryophyl ,,	,, Menth. Pip. Conc.	,, ,, Virgin Conc.
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Robinson's Concentrated Waters are stocked by all the best known Drug Houses. Chemists are advised to get into direct communication should they experience difficulty in obtaining them. They are unsurpassed by any other make.

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BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

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£5 BONUS ORDER.

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5 doz. 1/3 @ 11/-	2 15 0	3 15 0
2 ,, 2/9 @ 24/-	2 8 0	3 6 0
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5% dis. for cash	5 2	
	4 17 10	
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Sells for	7 16 0
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Tonic, Restorative, Digestive Wine.

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One Wine-glass after the two principal Meals.

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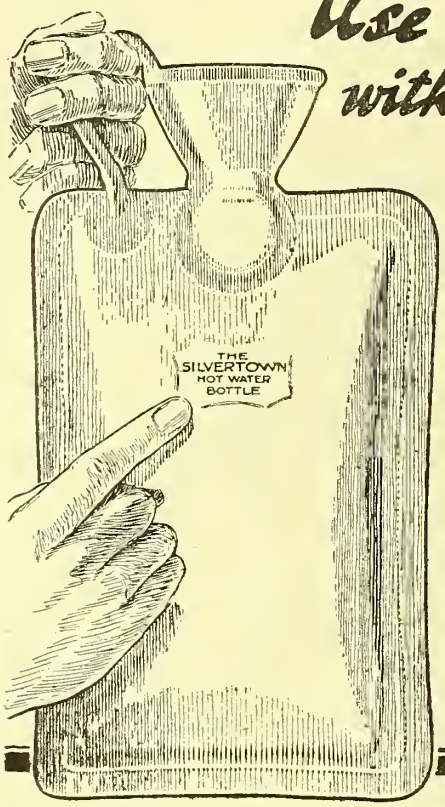
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Made in the usual standard sizes. Customer's name lettered free on all bottles when not less than three dozen assorted sizes are ordered at the same time.

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It is not generally known that Corks made of Rubber are to-day 25% cheaper, are more serviceable, reliable, and give greater sealing facilities than any other kind. We specialise for the requirements of the Chemical Trade, and manufacture all standard sizes.

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6/6 lb. 12 × 8 weighs under 13 oz.

Covers for same, assorted sizes, 21/- doz.

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6" × 8"	5/–	6/5
6" × 10"	5/6	7/1
7" × 10"	5/9	7/4
6" × 12"	5/10	7/6
7" × 11"	6/–	7/9
8" × 10"	6/3	8/–
7" × 12"	6/6	8/4
6" × 14"	6/6	8/4

Size	Minimum Wholesale Prices to Retailers	Minimum Retail Prices to Public
8" × 12"	7/1	9/2
9" × 12"	7/5	9/7
8" × 14"	7/8	9/11
10" × 12"	7/11	10/2
10" × 14"	8/11	11/5
10" × 16"	9/9	12/7
12" × 14"	9/11	12/8
12" × 16"	10/6	13/3

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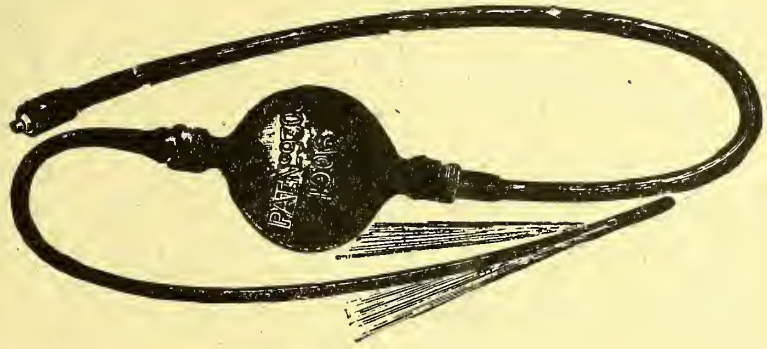
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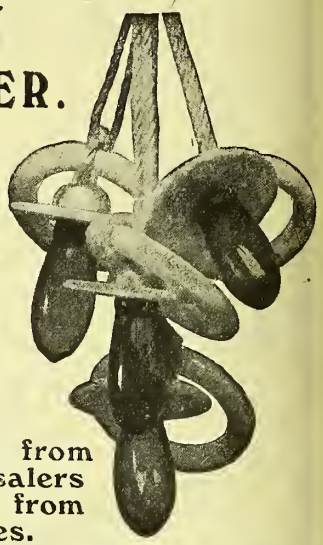
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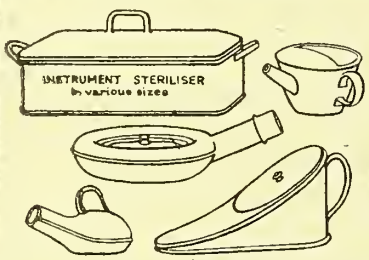
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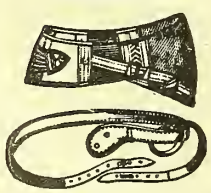
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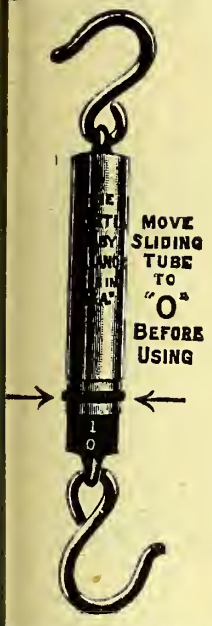
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NET WEIGHT
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Weighs up to 15 lb.

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(13)

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Makers for the Wholesale Trade only.

M. J. FECHER LTD.

ILEX WORKS,
Northwold Road, Stoke Newington, LONDON, N.16

WHOLESALE ONLY. MANUFACTURERS OF Established 1901

Surgical Dressings,

Absorbent Lints, Bandages, Cotton Wools, Gauzes, &c.

Samples and prices on application.

VERNON & CO., Ltd., Penwortham Mills, PRESTON.

Also 9 Fore Street Avenue, LONDON, E.C.

Branch Works—Waterfold Mills, Heap Bridge, BURY.

KUTSEAL THE HEALER

THE LIQUID COURT PLASTER
ALL-BRITISH.

Minimum Retail Price **1/3** Wholesale Price **11/6** PER DOZ.

CARRIAGE PAID ON ORDERS OF 30/- UPWARDS.
2½% DISCOUNT FOR CASH IN 7 DAYS.

SOLE MAKERS: THE KUTSEAL CO., BLACKPOOL.

LONDON AGENTS—
The S. W. K. CO., 1 Portsmouth Street, W.C. 2.

EXCELSIOR CREPE BANDAGES. FAST EDGE.

EXCELSIOR CREPE BANDAGE NAME

Owing to the War, the supply of Crepe Velpeau Bandages is discontinued. We, are, therefore, placing on the market a bandage of English manufacture which will be sold as

GIMBER'S EXCELSIOR CREPE BANDAGE

TRADE MARK.

An Elastic Bandage. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2½, and 3½ inches wide. Excelsior Crepe Abdominal Binders.—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes : 8 & 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Mark on the Wrappers.

Wholesale of

W. GIMBER & SON, Surgical Bandage and Instrument Makers, 44 Queen's Rd., PECKHAM, LONDON, S.E.

And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c.
Telephone : New Cross 1601. Descriptive Circular & Price List on application.

PATENT MINERALIZED

INDIA RUBBER

(Red Mineralized and Arabesque).

SURGICAL, CHEMICAL, DOMESTIC ARTICLES, SYRINGES, ENEMAS, WATER BEDS.

Manufacturers of every description of ***INDIA RUBBER****, Wholesale & Export only.*

WM. WARNE & CO., Ltd., 29 Gresham Street, LONDON, E.C. 2.

[See pp. 440-1, "C. & D." Diary, 1920.



BESORBON (Dr. Hill's Formula).

MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH AND COLD IN THE HEAD.

RICHARD DICKESON & COMPANY (Incorporated with REYNOLDS, SONS & CO., LIMITED), 57/59 CHARTERHOUSE STREET, LONDON, E.C.1



A BIG ADVERTISING CAMPAIGN for SORBO SPONGES

HERE are some of the big and striking Sorbo Sponge advertisements about to appear in the Press and on which thousands of pounds will be spent this year.

It will pay you handsomely to display Sorbo Sponges. For Sorbo Sponges sell at sight even without advertising, and there will be a big boom when this campaign is in full swing.

Protected Retail Prices: No. 1, **1/3**; No. 2, **2/-**; No. 3, **3/-**; No. 4, **5/-**; No. 4R, **7/6**; No. 5, **10 6.**

Send your order to-day. A parcel of three dozen assorted Sponges will show you 33⅓ % profit.

YOUR WHOLESALER CAN SUPPLY.

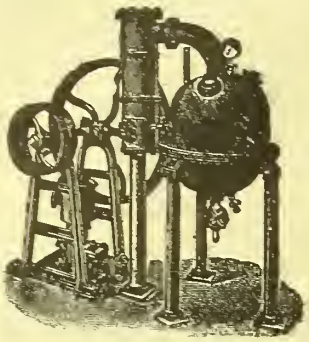
Make a special note to see the SORBO EXHIBIT at STAND No. D5. British Industries Fair, Crystal Palace, Feb. 23 to Mar. 5

Sorbo Sponge

THE MOST ABSORBENT RUBBER SPONGE

SORBO RUBBER-SPONGE PRODUCTS, LTD.
24 Walbrook, London, E.C. 4.

Telephone: City 9372. Telegrams: "Osorbeau, London."

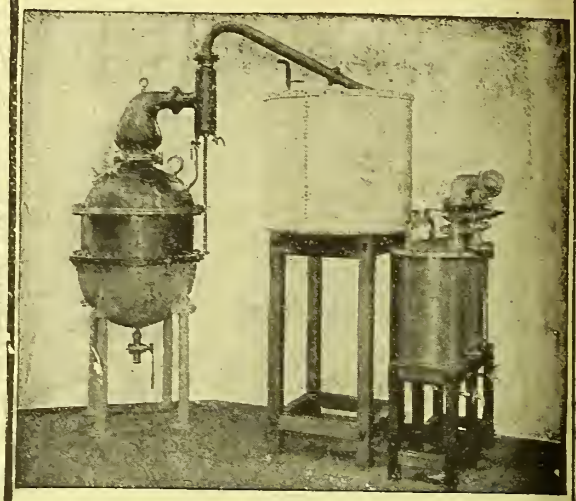


STILLS, VACUUM STILLS, VACUUM PANS.
EVAPORATING PANS.
AUTOCLAVES AND DIGESTORS.
SPECIAL APPARATUS AND PLANT FOR MANUFACTURING CHEMISTS.

SOLE MAKERS of BENNETT S PATENT 'IDEAL' ANNULAR FILM CONDENSERS.
SHEARS' PATENT MULSER.

BENNETT, SONS & SHEARS, LTD.
ENGINEERS & COPPERSMITHS,
43 & 44 Shoe Lane, LONDON, E.C. 4.

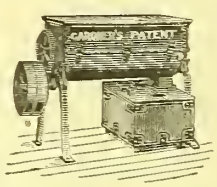
COPPER
Vacuum Distilling Apparatus



COPPER VACUUM STILLS
for FINE CHEMICALS, ESSENTIAL OILS, MALT EXTRACTS, Etc. Etc. Etc.

JOHN DORE & CO.
Distillers' Engineers & Coppersmiths,
28-30 HIGH STREET, BROMLEY, E. 3.

GARDNER'S PATENT
"RAPID" SIFTERS & MIXERS

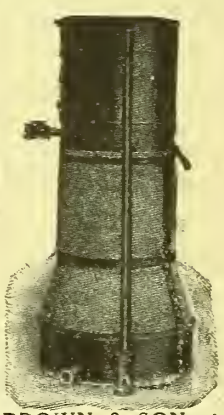


OVER 6,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

FOR HAND OR POWER.

CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER



TO MANUFACTURING AND WHOLESALE DRUGGISTS, &c.

We beg to call attention to the fact that our well-known Patent Stills are made for heating by steam pressure. Where this is available it forms a very cheap and efficient method of obtaining distilled water. Any pressure will suit from 10 to 200 lb. Made in various sizes to produce from 1½ to 15 gallons PER HOUR. Cost of distilled water made this way is practically nil. As with our Gas Stills, these are perfectly automatic.

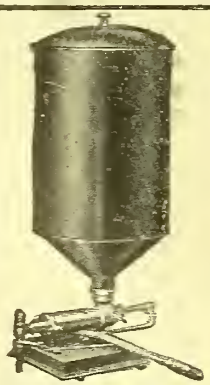
For producing up to
1½ gallons per hour, 9 gallons per hour,
5 " " 15 " "
Please Enquire for Quotation.

The few most important places we give below afford evidence of the quality, efficiency and economy of the Steam Stills: National Physical Laboratory, 2 in use; Imperial College of Science, 8 in use; University of Wales; Pharmaceutical Society; Guy's Hospital Bacteriological Department; and many of the leading Breweries and Drug Houses etc. etc.

Pamphlets & particulars forwarded on application

Estimates submitted free if required for supplying and fitting complete.

BROWN & SON, Alembic Works, 9 Wedmore St., Holloway, N. 19.



Bottle Filling Machine.

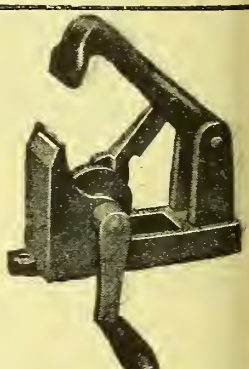
THE "CENTRAC" MACHINES

for Filling Bottles, Collapsible Tubes, Pots, Jars, etc., and for Closing Collapsible Tubes.

Made in England.
Strong, Simple, Reliable. Easy to Work.

INQUIRIES SOLICITED.

THE BANISTER STREET WORKS, Ltd.
Engineers,
45 HIGH ST., HOMERTON, LONDON, E.9.
Telegraphic Address: "Clotula, Hack, London."



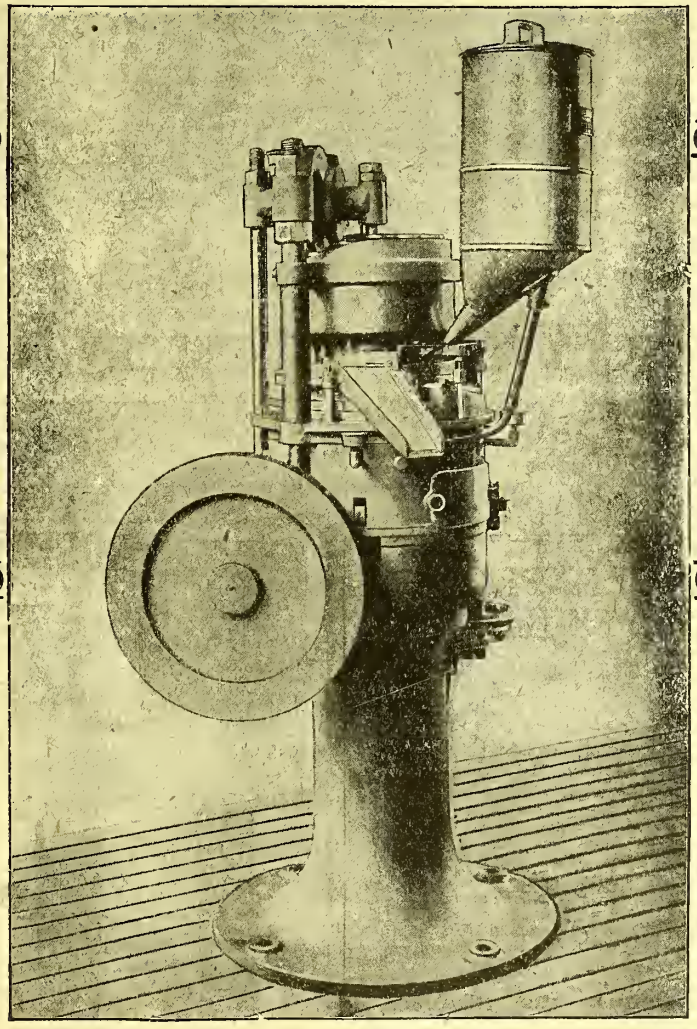
Clip Fastening Machine. (3)

PATENT

ROTARY TABLET MACHINE

recognised by the largest users as the

BEST ROTARY MACHINE ON THE MARKET.



0-Die Pattern for Tablets up to ½-in. dia.

OUTPUT 700 Tablets per minute

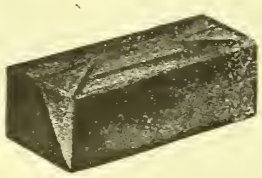
12-Die Pattern for Tablets up to ⅞-in. dia.

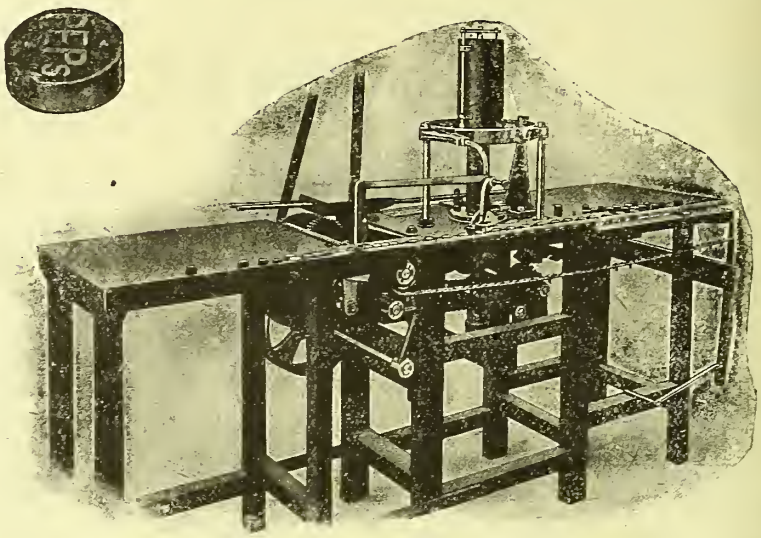
OUTPUT 400 Tablets per minute

This machine has done great service during the war, compressing Medicinal Tablets and also Explosives. The worm-gear is most powerful, and runs completely submerged in a bath of oil, which lengthens its life considerably.

Prices and further particulars, and for various sizes of Single-Punch Type Machines, Ointment Mills, Capsule Machines, and other Pharmaceutical Apparatus, from

S. W. Wilkinson & Co. ENGINEERS, SPECIALISTS IN PHARMACEUTICAL MACHINERY. **Western Road, Leicester.**





MACHINES for
WRAPPING
LABELLING
COUNTING
FILLING

THE FORGROVE COUNTING AND FILLING MACHINE

Forgrove Machinery Company, Limited

Dewsbury Road, Leeds — *TEL. : 26586*

81/83 Knightrider St., London — *TEL. : CITY 1464*

JACKSON'S "EXPRESS" BOTTLE FILLING MACHINE.

A NEW DESIGN on modern lines, of lightness and great strength, without clumsiness. Is quite foolproof, all electric and other complications discarded. Extremely simple and adapted for girl labour. Dripless, owing to new rapid and perfect cut-off.

In face of all competition, has been adopted *during last year* by most of the best and up-to-date firms, such as:

Ayrton, Saunders & Co. Ltd.	C. W. Johnson & Co.
W. J. Bush & Co. Ltd.	Parke, Davis & Co.
Butler & Crispe	Potter & Clarke
W. B. Cartwright Ltd.	H. E. Stevenson & Co.
Thos. Christy & Co.	Ucal. Cheltenham
J. C. & J. Field Ltd.	Whitaker & Co., Kendal

and many others. A great number of repeat orders.

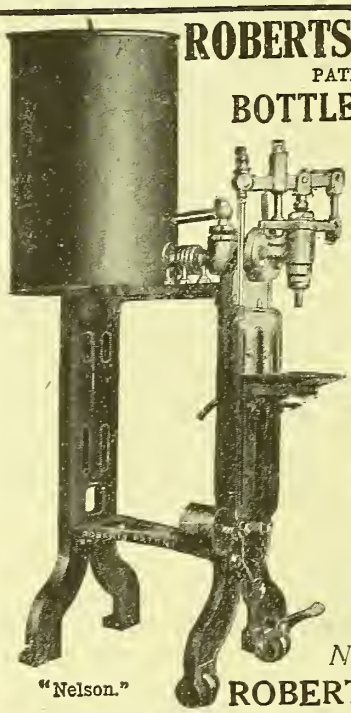
The Fastest, Cleanest and Simplest. Average Speed 1,000 bottles per hour.

Specially good for—Emulsions, Hair Oil, Hair Restorer, Dyes, Lacquers, Essences, Extracts, Castor Oil, Camphorated Oil, Glycerine, Toilet Preparations, Veterinary Medicines and Patent Medicines of all kinds. Used by many of the largest Wholesale Chemists & Druggists, who write: "There is no better filling machine." "An excellent machine," A great help—Average speed 1,000 bottles per hour."

PRICE (with our latest improvements and nickel-plated fittings and improved dripless cut-off) £20

JOHN P. JACKSON & CO., Ltd.,
Engineers and Coppersmiths,
2, 3 & 4 Pownall Square, LIVERPOOL.

ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES



Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY, and Rapidity in Bottle Filling.**

NOTE the address

"Nelson." **ROBERTS' PATENT FILLING MACHINE CO.,**
33 ROUNDCROFT ST., BOLTON.

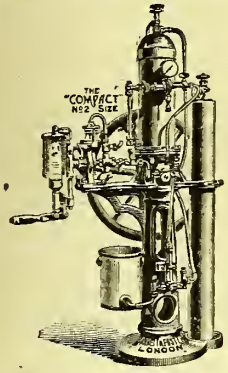
OUR LATEST PATENT "ALPHA" PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

Write for Particulars

All rights reserved.

Everything for Bottling.

"Compact" Soda-Water Machines



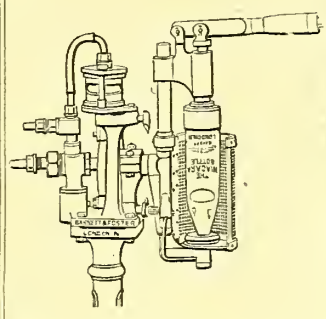
For use with liquefied carbonic acid gas. A complete mineral water plant, comprising a soda-water machine and one or two fillers on one base. Easy to instal and simple to operate. Output up to 1,200 doz. bottles per day.

All Machinery and Appliances for the production of Soda Water and Aerated Beverages.

Bottles and Syphons.

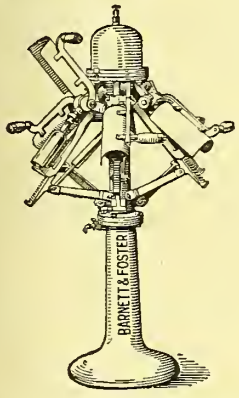
THE "RED CLUB" BRAND Concentrated Soluble Essences.

"Ideal" Turnover Fillers



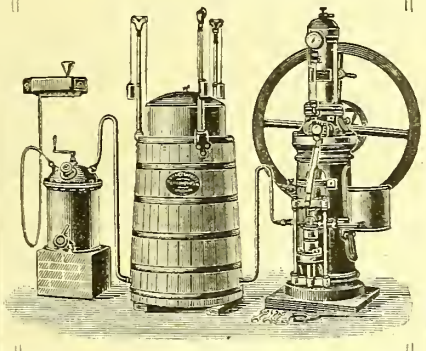
For Codd's, Niagara or other internally stoppered bottles. With this machine a lad can fill and syrup 80 doz. large bottles per hour. It can be supplied fitted with a Back Pressure attachment, which reduces the consumption of gas by half.

"Roundabout" Fillers



For all externally stoppered bottles. These machines fill on the Back Pressure system and save 50 per cent. in working costs. Nine sizes; four for hand and five for power.

"Niagara" Soda-Water Machines



Capacities from 100 to 6,000 doz. of 10-oz. bottles per day. Supplied complete with gas work and automatic saturating cylinder. The best machine for export.

Crowning Machines



Foot, hand, and power operated crowners for all outputs. With and without Automatic Crown Feed.

BARNETT & FOSTER, (Proprietors of GALLOWAY BROS.)

(Dept. 1 N) Niagara Works, Eagle Wharf Road, LONDON, N.1.

(And at BOLTON, LANCS.)

A 427 *Telegrams* {"DRINKS, HOX, LONDON." "SODA BOLTON." *Telephones* {LONDON, 1605 NORTH. BOLTON, 545.

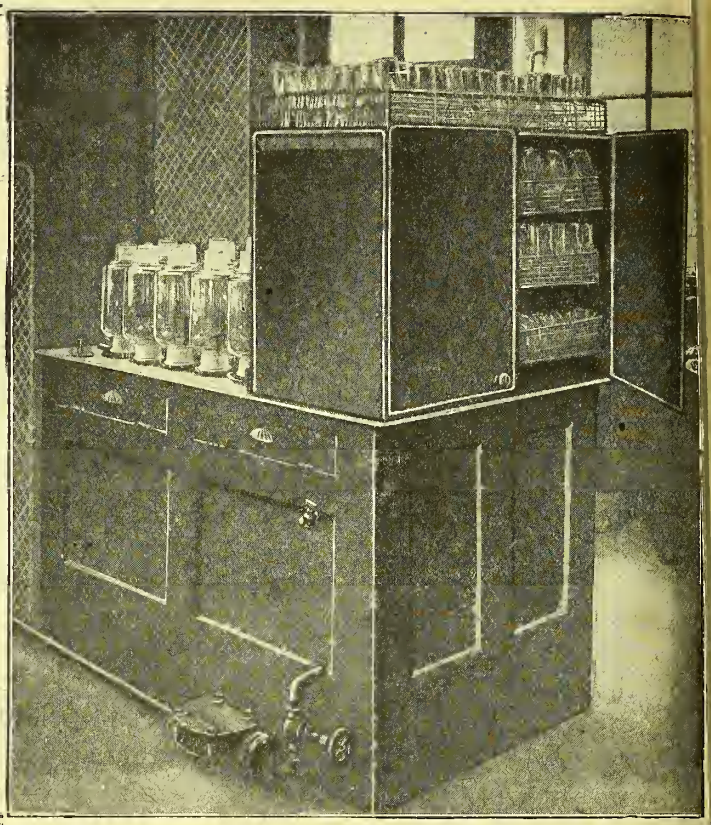
Sutcliffe Bottle Dryer

ILLUSTRATION of a Combination Bottle Dryer specially designed for Manufacturing Chemists. Six to ten gross can be dried in the cupboard per hour, and at the same time large bottles can be dried on the tubes at the rate of two thousand a day of ten hours.

We have supplied scores of these machines, and can give references in every district in Great Britain. Among the best-known users are : Messrs. Allen & Hanburys Ltd.; Bleasdale Ltd.; Boots Ltd.; W. J. Bush & Co., Ltd.; W. B. Cartwright Ltd.; Davy Hill & Hodgkinson; Duncan, Flockhart & Co.; R. Gibson & Sons, Ltd.; Hirst, Brook & Hirst Ltd.; Johnson & Sons ; Kilner Bros.; Lofthouse & Saltmer Ltd.; Meggeson & Co., Ltd.; Nuttall & Co. (St. Helens) Ltd.; Yardley & Co., Ltd. etc.

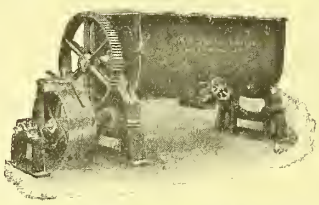
We also make special Plant for Drying Chemicals, Confectionery and every kind of material. Also Dust Removing and Ventilating and Warming Plant.

Illustrated Catalogue Sent on Request.



Sutcliffe Ventilating & Drying Co. Ld.
Cathedral Gates, Manchester.
Telephone No.: 3920 City
Telegraphic Address: "Ventilabro."

"ATLAS" PATENT
MIXERS & SIFTERS



Absolutely up-to-date in every detail, strong, and most reliable machines on the market.

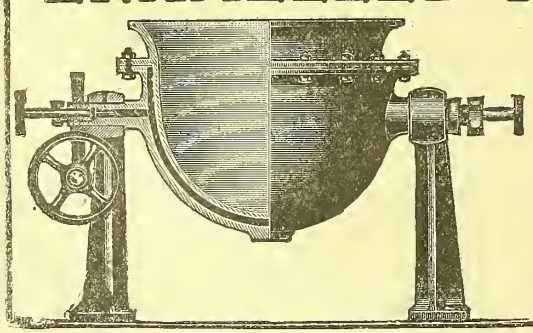
BALL MILLS

HIND & LUND, LTD.,
ATLAS WORKS, PRESTON.
Telegrams: "Atlas Preston."
(3)

PIPES AND SMOKERS' REQUISITES.
Price Lists on Application.
HARWOOD BROTHERS,
BRIAR PIPE MANUFACTURERS,
8/20 Richmond Street, LIVERPOOL.

MECHANICAL DENTISTRY.
To INCREASE YOUR PRACTICE send your Work to
A. G. FENTIMAN.
Every case executed under personal supervision, thus facilitating fit and giving complete satisfaction. Send for price list, &c., to (the only address)
A. G. FENTIMAN, Ltd., 190 BISHOPSGATE, LONDON, E.C. 2.
Telegrams: "Fentident, Ave, London." Telephone: London Wall 7.

ENAMELLED IRON APPARATUS



Suitable for all Temperatures and Pressures.

DANTO ROGEAT & CIE,
33-39 Chemin des Culattes, LYONS, France.
Suppliers before the War to the largest European Manufacturers of Chemical Products.

Write for Price List to Sole Representative:
H. SLOOG, 45 Great Marlborough Street, LONDON, W. 1.
Tel.: Regent 2460



TOMLINSON & CO.'S DAIRY PREPARATIONS

BUTTER POWDER, BUTTER COLOUR, CHEESE RENNET, LIQUID ANNATTO, PRESERVATIVE, ESSENCE OF RENNET, WILSON'S JUNKET TABLETS.

Supplied in bottles and bulk. *Write for terms.*

BEST WATERGLASS

For Egg Preserving.

Packed in thoroughly sound containers. Agent's own name and title on labels. Write for specimen label and terms.

TOMLINSON & HAYWARD, LTD., LINCOLN.



Cartols 1½d., 3d., 6d., 1/-

A Welcome Visitor



at any time in every household. Every Bug, Flea, Beetle, Moth, Fly, etc., *dies* once it has come into proper contact with

KEATING'S

FLY GUM

For Fly Papers and Reels.

Guaranteed to retain its stickiness TWO OR MORE SEASONS.

Prepared by

E. H. WRIGGLESWORTH, Manufacturing Chemist - HULL.



POWDER WEED KILLER.

Packed in small decorated tins. Immediately soluble in cold water.

All Tins Free. No return Empties SPECIALLY ADAPTED FOR EXPORT.

Have now a large sale through CHEMISTS, and early application should be made for illustrated Counter Bills & Showcards

Awarded Gold Medal Anglo-American Exhibition. Commended by Royal Horticultural Society.

LIQUID WEED KILLER.

Strength: 1 gall. sufficient for 25 galls. of Water.

AND DOUBLE STRENGTH.

ARSENITE OF SODA, 80%

ARSENATE OF LEAD.

QUASSIA CHIPS.

The Acme Chemical Company, Ltd.

TONBRIDGE, KENT.

And RIVER STREET, BOLTON, LANCASHIRE.

PREVENTS POTATO BLIGHT.

Tested and approved by the FOOD PRODUCTION DEPARTMENT

You can safely recommend 'BLIGHTY' as the BEST POTATO SPRAY.

Gives a Uniform 2% Solution.

Made from the famous 'Maple Brand' Copper Sulphate.

Write for Literature from the

MOND NICKEL CO., Ltd.

Horticultural Section, 39 Victoria St., London, S.W. 1.

'Blighty'

REG TRADE MARK

BURGUNDY MIXTURE

Is an Investment THAT WILL PAY.

Order your Stock for the season EARLY.

EXTENSIVELY ADVERTISED THROUGHOUT GREAT BRITAIN.

Packed in Waterproof Bags and Grease-proof Cartons

SIMPLE TO USE.

(3)



Reduced facsimile of Packet.

BONUS OFFER!

Send us One Guinea for 6 dozen 6d. packets, in neat show boxes, and we will include six 1/- packets free for displaying our Showcard matter.

SHOWS 100% PROFIT

Rats and mice readily devour WATSON'S VERMIN KILLER, and WATSON'S VERMIN KILLER quickly devours the Vermin, leaves no smell—nothing but the dried skin.

CONTAINS NO SCHEDULED POISON.

RETAILS AT 6d. & 1/- per packet.
TRADE PRICE 3/6 & 7/- per dozen.

Is extensively used with great success.

ALSO PACKED IN 1-lb. CONTAINERS.
SPECIAL TERMS FOR LARGE QUANTITIES.

Order direct or through your wholesaler.

THE LONDON DRUG CO.,

Station Road, and Coldharbour Lane, Brixton, London, S.W. 9.

DANYSZ VIRUS



Is on the P.A.T.A. List.

Retail Prices:

2/- per single tube.

5/- for three tubes.

Leave you a PROFIT of

75% & **50%** respectively.

LIQUID VIRUS for large applications at 6/- per quart bottle, making about 5 lb. of bait.

SHOWCARDS.—Dummy Boxes, Clockwork Cats for Window Display, Circulars, Postcards, etc., on application.

Through your Wholesale House or direct from

HALLER LABORATORIES, Ld.

(formerly DANYSZ VIRUS, Ld.).

325 Borough High Street, LONDON, S.E. 1.

Telegrams: "Virudana, Sedist, Lond n." Telephone: HOP 2717

Science in War

POISON GAS, the production of German science, caused innumerable casualties in THE GREAT WAR.

ROBERTSON'S

'RATOX' RAT POISON

The contribution of **British Science** to the RAT WAR has proved just as deadly.

Excellent Profits to Retailers.

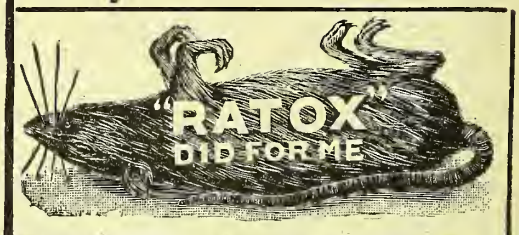
Sold in Tins: **6d.**, **1/-**, **2/-** and **5/-** each.

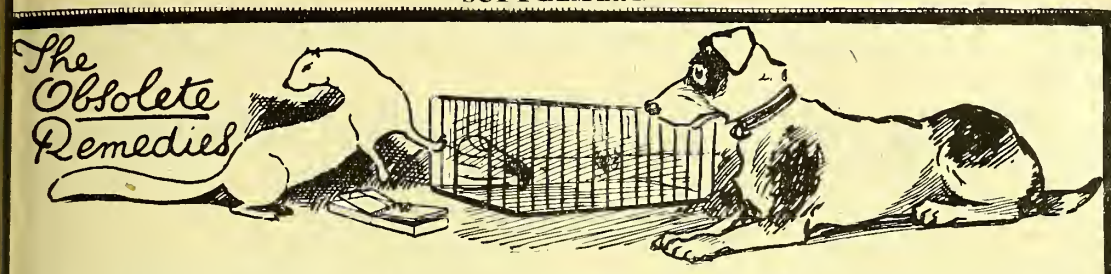
SOLE MAKERS:

ALEX. ROBERTSON & SONS, LTD.

Argyle Chemical Works,

OBAN, Scotland.





A READY SELLING RAT POISON

of proven value. It is on the Government List. It always retains its effectiveness—therefore creates no bad stock. Now being advertised in the Press. Helping your sales and therefore ours. Extirmo retails in tins at 7½d., 1/3, 2/6, and 5/-, and shows you a splendid profit. *Are you stocking Extirmo?* Write to-day to the manufacturers for full particulars. Prompt deliveries for either Home Trade or Export.

E. H. WRIGGLESWORTH, Ltd.,
ST. ANDREW'S WORKS, HULL.



HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair Restoring Ointment.
Edos, or Tasteless Purging Powder.

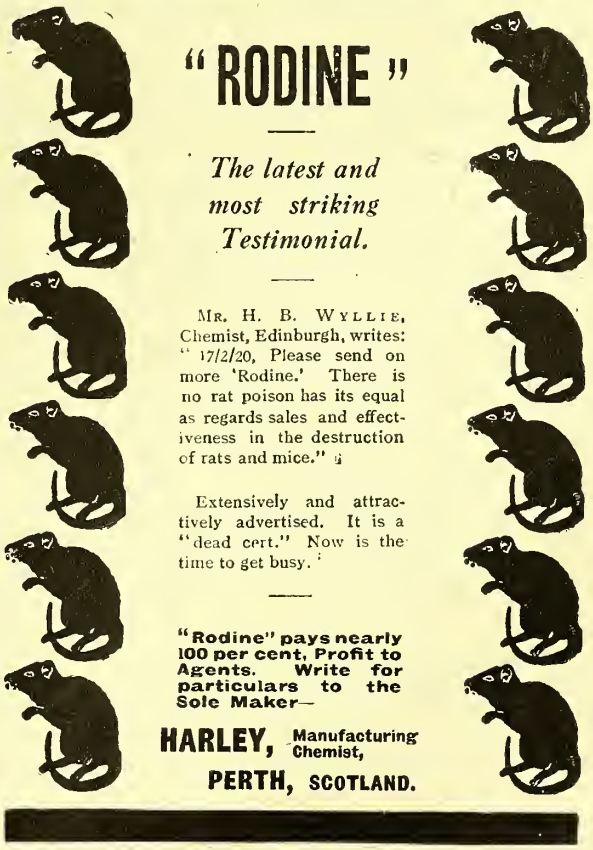
HARVEY'S
Great Remedies for the Horse

Protected Prices (P.A.T.A.)

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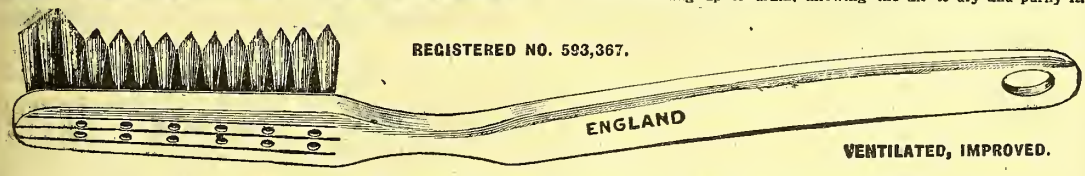
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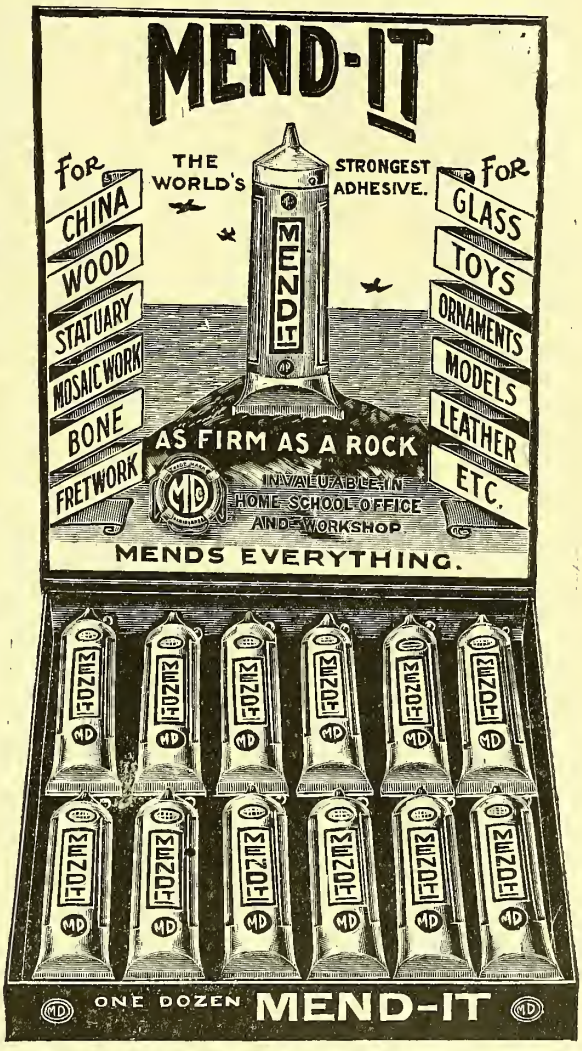
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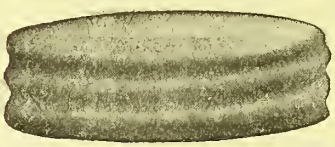
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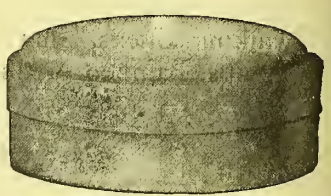
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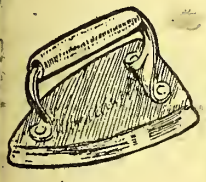

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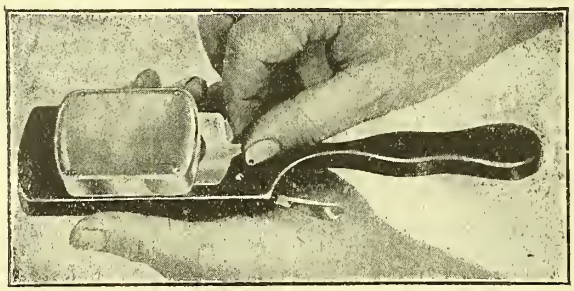
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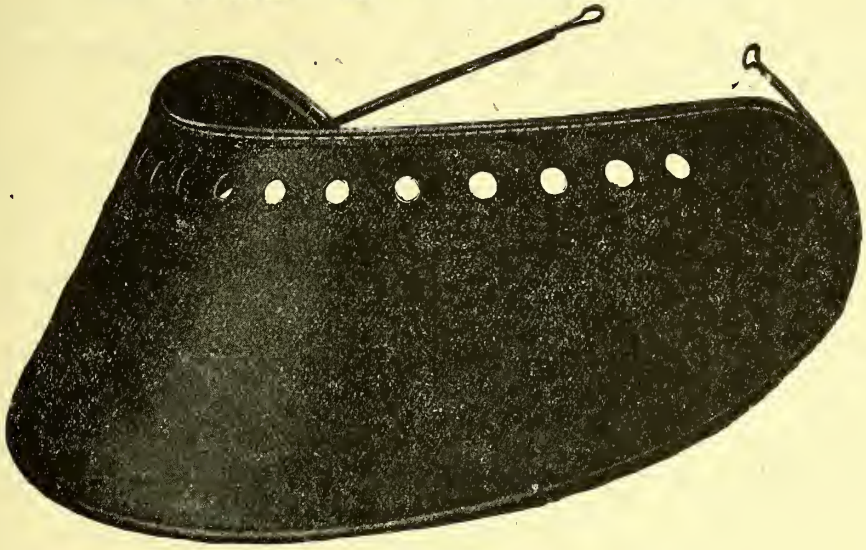
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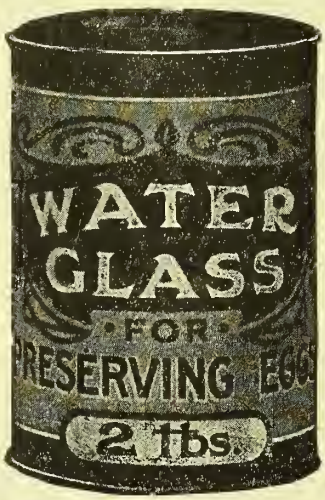
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(164)

THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON, E.C.4.

FEBRUARY 28, 1920

This Supplement is inserted in every copy of The Chemist & Druggist

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GATESHEAD-ON-TYNE.—Assistant wanted; qualified preferred; capable, energetic, and with knowledge of Photography. Please apply, stating experience, salary required, when at liberty, references, etc., to Elliott, Chemist, 279 High Street, Gateshead.

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RUGBY.—Junior Assistant, unqualified, outdoors, required for Dispensing and quick Counter business; chief duties Dispensing and making of stock; other Assistants kept; hours 9-7, Wednesdays 1, Saturdays 8; state age, experience, reference, and salary required in first letter; say when disengaged. Apply Fleet, Chemist, Rugby.

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BRANCH Manager, qualified, for good-class Retail and Dispensing, with Optics and Photographics; with Optical qualification preferred; must be a good Counterman, courteous, and obliging, and have unexceptionable references; residence attached; permanency to suitable man. Apply, stating age, height, salary required, previous experience, and when disengaged, to D. T. Evans, Farningham Lodge, Margate.

ASSISTANT, qualified, with exceptional experience and ability, required in an old-established business with a country connection; hours 8.30 to 8 p.m., Wednesday 8.30 to 1 p.m.; Sunday short duty, divided between three; no photograph or testimonials required in preliminary application, which latter should state fully in confidence previous and present employment, and salary required; only those whose record will bear the strictest investigation need apply. "Pharmacy" (198/41), Office of this Paper.

DISPENSER wanted beginning of April; experienced; good Bookkeeper; £3 per week. Apply Drs. Hoar and Lobb, 11 King Street, Maidstone.

DISPENSER (part-time).—Dr. Steedman begs to inform those applicants whom he has been unable to answer personally that the post advertised two weeks ago is now filled.

DRUGS.—Unqualified male Assistant for Retail Counter of West-End Stores; must be good Salesman; give full particulars and experience; state age and salary required. Apply P.C.B. 41/27, Office of this Paper.

GOOD Junior required for Counter and Stock, for quick Cash trade; no N.H.I. or Sunday duty. Write particulars or call, Mr. Wilson, Chemist, 67 Chrisp Street, Poplar, E. 14.

IMPROVER or Junior; well experienced; good-class Counter and Dispensing. Photo and wages to Thomas Hale, Pharmacist, Luton.

JUNIOR Assistant wanted in old-established Dispensing and Photographic business; preference given to one who has just completed apprenticeship in good Dispensing business. Please send photo and state salary required (outdoors) to T. Parsons, Pharmacist, Sevenoaks.

LADY Dispenser wanted; experienced; Apothecaries' Hall; willing to assist Counter if required; permanency. Apply, stating experience, height, salary required, etc., to W. Deacon, Pharmacist, Bridgwater, Somerset.

LADY Pharmacist, qualified; Dispensing and Counter; moderate hours; close 1 p.m. Thursdays; no Sunday duty; salary (indoors), £2 2s. per week. R. S. Cheetham, The Bright Pharmacy, Peterborough.

MANAGER, qualified, for brisk branch business near Wrexham; permanency only; good salary and liberal commission; owing to housing difficulties, would suit single man best; healthy, bracing, and picturesque district. Apply, with full particulars, to Sir Leonard Rowland, L. Rowland & Co., Chemists, Wrexham.

MANAGER, qualified, for branch shop; good-class Dispensing business, some Photography; very short hours; work light; required for six months, possible permanency. Apply 29/8, Office of this Paper.

MANAGER, with previous management experience, for good-class business, with Photographic, on salary and commission; able for Window-dressing; own advertising and staff control. Give fullest particulars of success as Manager, with references, state age, height, if married, when free, and enclose photo, to "Enquirer," c/o Lindsay's, Wholesale Druggists, Dundee.

PHOTOGRAPHIC.—Wanted, smart Salesman for Sheffield; used to Photography and able to talk about it; salary £4 to commence, with great prospects to ambitious man; interview either Sheffield or London. Wallace Heaton, Ltd., 19 Change Alley, Sheffield.

QUALIFIED Assistant wanted shortly for brisk business in manufacturing town; he must be capable and reliable; abstainer preferred; hours approximately 50 weekly, a little extra every sixth week; salary £5 10s. to £6, according to experience and capacity. Apply Thursfield, Chemist, Kettering.

QUALIFIED Assistant required; elderly man preferred; good salary; N.H.I.; in country business; permanency. Apply 33/14, Office of this Paper.

QUALIFIED Assistant, about 30, for old-established Dispensing and Retail business; comfortable berth to suitable man. Full particulars to 33/2, Office of this Paper.

SMART unqualified Assistant required for Counter and Dispensing; knowledge of Photography essential; age 25 to 28. Apply Matthews & Son, George Lane, South Woodford.

SENIOR Salesman; Retail Perfumery and Toilet Products; must be well-educated gentleman, of good appearance, tall, and accustomed to interviewing best class of customers; good salary and permanency. Apply in first instance in writing to "M. F.," 6 New Burlington Street, W. 1.

WANTED (immediately), Assistant; good appearance and address; Photography, Window-dressing, Store prices; good wages to suitable man. Jack L. Robinson, Ph.C., Linthorpe Road, Middlesbrough.

WANTED (immediately), unqualified Assistant; one who speaks French preferred. Apply the Manager, Heppells, 78 Strand, W.C.

WANTED (at once), young lady, chiefly for Toilet and graphic Department; ample experience in Dispensing for study; easy hours. Full particulars to Mills, Chemist, Du

WANTED (at once), a qualified Assistant as Senior in class old-established Country business; age about 30 t hours 8.30 to 8, Saturdays 8.30 to 9; half-a-day off a at 1 o'clock; alternate Sunday duty, 6 p.m. to 8 p.m.; send all particulars in the first instance as to age, height, required, and enclose recent photo. W. H. Dixon & Sons, East Grinstead.

WANTED (immediately), experienced Assistant, good D ser and Counterman, with knowledge of Photogi highest references essential. Apply Starkie, 126 Strand, W

WANTED, an unqualified (outdoor) Dispenser (male); in Surgery; state age, experience, salary required. 33/22, Office of this Paper.

£200 INVESTMENT, at good interest.—Required, Operator-Mechanic; salary £5 per week and mission. Address, fully, P.C.B. 42/290, Office of this Pa

WHOLESALE.

ADVERTISING DEPARTMENT.

A CAPABLE, experienced Head Assistant wanted by an established firm manufacturing Food and Pharmaceutical products. Apply, in confidence, in the first instance, to 198/13, Office of this Paper.

BOOKKEEPER wanted (either sex), thoroughly experience accurate; £3 weekly to commence. Letters only, Da & Co., Manufacturing Chemists, 41 High Street, Harrow-o Hill.

COMMISSION Salesmen required on open territories to represent a firm manufacturing high-class Toilet Specialities (Chemists, Hairdressers, etc.); excellent opportunity for live men; state ground covered; only energetic men with live connection need apply; no order collectors. Apply 30/27, Office of this Paper.

DRESSINGS.—Wanted, competent man to take charg department; must be good Stockkeeper and capab handling large orders. State experience, salary, and full ticulars, to 196/70, Office of this Paper.

DRUGGIST SUNDRIES.—Well-known sundry house req young and energetic Traveller; preference given to service man; must be under 35, and had experience in trade and on the road. Apply, giving age, experience, and st salary, to 195/8, Office of this Paper.

ENTERPRISING Representatives, covering either North Coast, North Wales, Midlands, or South-West Coast quired to carry high-class Proprietary Foods and Wines; g men with an established connection would have a lucrativ pointment; remuneration by commission. Give fullest partic in first letter to "Foods" (198/66), Office of this Paper.

LARGE Chemical firm in extreme East of London re highly-educated (public school if possible) young man, and ambitious, for office work; shorthand, typing, French, rapidity at figures essential, but *savoir faire*, initiative grit more important; good prospects. Apply 196/59, Offic this Paper.

LIVE Representatives required (at once) for London and vinces, to handle Brilliantines, Bay Rum, Eau de Col Compact Powders, etc., bulk and packed, on commission o 15 per cent. (half of which will be paid on weekly orders boo is the remuneration offered to men with sound connections an Chemists and Hairdressers. Applicants should write in fiedeuce, stating territory covered and usual lines carried L. J. R. (42/23), Office of this Paper.

MACLEANS LIMITED require whole-time Representatives the following districts: Newcastle-on-Tyne, Potte London, Devon and Cornwall; good opportunity for energetic tactful men with a knowledge of Retail requirements. Mack Limited, 6 Spring Street, Paddington, London, W. 2.

MANAGER or Manageress wanted for small business in T Preparations; general knowledge of business; Chemist's perience necessary. Address, stating previous experience salary required, to Box 162, c/o John Hart, 6 Arundel St Strand, W.C. 2.

QUALIFIED Chemist required to assist in Wet Poison R Apply, giving full particulars of experience, salary requi etc., to Southall Bros. & Barclay, Ltd., Wholesale Druggists, Lo Priory, Birmingham.

REPRESENTATIVE wanted, must be young, energetic, and good appearance, previous experience preferable, to Chemists' high-class Packed Goods bearing their name address; London district. Apply 197/21, Office of this Paper.

ESENTATIVE FOR SCOTLAND.—A well-known firm of nufacturing Chemists are about to appoint a Representa- Scotch territory; to a man with experience, resident in rict and having sound connection with both Chemists tors, the position is an exceptionally good one, offering opportunities; state terms and experience, etc., in the er; strict confidence preserved. Apply 198/60, Office of er.

ESENTATIVES wanted to carry as side-lines attractively cked Toilet Specialities; 15 per cent. commission. If you sound connection and can do good business in these ply, stating ground covered and lines at present carried, et" (42/900), Office of this Paper.

ESENTATIVES; Sundries and Toilets; part expenses and nmission; districts vacant: West of England and Wales, f England. Applicants, who must have good counection, tate ground, experience, age, and terms, 32/31, Office of per.

IRED, Representative to call regularly on Pharmacists, ., by a firm of Manufacturiug Chemists with established on in London and throughout the provinces. Apply, full particulars, and also ground covered, articles accus- o handle, etc., 26/4, Office of this Paper.

IRED, capable Manager used to manufacturing Rubber ecialities; must have expert knowledge and highest of es; excellent position for the right man; good salary rest in the business; only those with first-class experience ply. Reply by letter only to 458 Oxford Street, W. 1.

T Representatives wanted for all parts of the British es, calling upon Patent Medicine Vendors, to sell two attractively packed Proprietary Lines; they show good re extensively advertised, and are on the P.A.T.A.; whole- n or part-time men with good records will be considered; reatment and excellent prospects for reliable men. Give ticulars to Waltons, Limited, Manufacturing Chemists,

ET PREPARATIONS AND PERFUMERY.—High-class n requires experienced woman to take charge of factory; good organiser and used to production; good salary and s. Apply 197/3, Office of this Paper.

ET Preparations of all descriptions and Perfumery.— ndon firm require a thoroughly experienced man or woman ufacture these articles; a good salary paid to the right al and permanency. State age, experience, wages re- and where last employed, in confidence, to "Secretary," ton Road, Bayswater, W. 2.

ELLER, London.—An excellent opportunity presents itself active man, with sound London connection, who is de- f improving his position; liberal salary and commission, y facility and encouragement offered to progressive man, pplication will be treated in strict confidence. Apply, ull particulars, to 32/39, Office of this Paper.

TED, Representative for a first-class Wholesale Chemists' ndry business for South Wales and the Midlands. Apply Office of this Paper.

TED, Representative for first-class Wholesale Chemists' ndry business for Liverpool. Apply 28/180, Office of this

TED, an experienced man to take charge of the Sales partment of a firm of well-established Manufacturing who specialise in the manufacture of Proprietary Articles at home and abroad; preference will be given to one with owledge of languages and accountancy. Address, stating h full particulars, to Box 1319, c/o Clarke, Son & Platt, gh Holborn, London, W.C. 1.

G Pharmacist required to represent a large Wholesale use, having a wide connection amongst Medical Men and . State age, salary required, and if possible enclose photo- 98/36, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

RITZ.—Required (immediately), qualified Englishman, pre- ably speaking French. State terms in francs (outdoors), tails, when free, to Morton, 11 Rue des Postes, Biarritz.

EAST.—A qualified Assistant, not over 30 years of age; st have had experience in first-class Retail and Dispensing ; good salary for the right man; passage paid out and a four years' agreement. Address 29/40, Office of this

ND.—Invoice Clerk required by leading firm of Wholesale uggists in Ireland; must have good knowledge of the xperience in pricing, and be quick at figures. Reply, age, salary expected, and full particulars, to 189/35, this Paper.

.—Qualified Assistant required for important European armacy in Kobe; four years' agreement; second-class paid out and home. Particulars of salary upon appli- M.H. Export Department, S. Maw, Son & Sons, Ltd., 7-12 e Street, E.C.

ITALY.—Required, an experienced, qualified Chemist, with a thorough knowledge of Pharmacy, also of Stockkeeping, Ordering, Costing, etc., to assist in general management of a large high-class Pharmacy; must be neat, orderly, thoroughly systematic, and have good business ideas; previous Continental experience an advantage but not indispensable; unmarried preferred; state age and full experience, with salary required, and enclose photo, which will be returned. Apply 28/26, Office of this Paper.

PARIS.—Qualified Assistant; knowledge of French and Continental experience; outdoors; short hours; no Sunday or night duty; state age, experience, references, and salary required in first letter; permanency, with good prospects, for suitable man; send photograph, which will be returned. Roberts & Co., 5 Rue de la Paix, Paris.

RHODESIA.—An opening for a young qualified Assistant who has had good Dispensing experience; prospects excellent and climate delightful; cost of living reasonable, excellent board costing about £10 per month; three years' agreement; passage paid out; salary offered £27 10s. per month for the first year, £30 per month for the second, and £32 10s. third, with furnished bedroom. Apply by letter only to "C. M. N.," 25 Arrol Road, Beckenham, Kent.

STRAITS SETTLEMENTS.—Young Assistant, unmarried, with Chemist's qualification, a good knowledge of Optics desirable; four years' agreement; passage paid out and home; salary first year £420, second and third years £455, fourth year £490. Apply 140/34, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

A.1. CHEMIST desires position as Manager; qualified 1910; West-End experience; London preferred; interview. Reply, first instance, Minter, Fountain House, Brightlingsea.

A CAPABLE Assistant; unqualified; 15 years' experience in high-class Dispensing and Counter work; excellent references; permanency; London or near. Apply "C." (32/4), Office of this Paper.

A PART-TIME, equal to about 30s. weekly (3 hours off daily—morniug); unqualified; has had good experience Retail and Dispensing; some years' absence abroad (returning); a few months' recent work; good class. Moore, 8 Dungar Terrace, Kingstown, Ireland.

A QUALIFIED Chemist now open for permanency or Locum; full General experience; state maximum salary and conditions first letter; reliability guaranteed, also workmanship. Apply 31/38, Office of this Paper.

ACTIVE, competent Assistant or Locum; any period; town or country; experienced Dispenser, Prescriber, Counterman, Window-dresser; Photography; disengaged. "Rhei," 239 Camberwell New Road, S.E. 5.

ACTIVE Assistant, 25, 11 years' varied experience, used to good-class Dispensing, references, desires change; North preferred; please state hours and salary offered. Apply 33/8, Office of this Paper.

ADVERTISER, single, unqualified, desires situation with F.S.M.C., with idea of learning Optics and taking the Diploma. Address "Introspective" (23/29), Office of this Paper.

ANYWHERE.—Qualified; part or full time; fourteen years Dispensing, Counterman, Photography; London, country, Continent; fluent French. Burrell, 78 Rockingham Street, S.E.

AS part-time or evenings; thoroughly experienced Locum; smart, neat, quick Dispenser; good Counter Salesman. G., 122 Scott-Ellis Gardens, St. John's Wood, N.W.

AS qualified Manager or Assistant; disengaged; 20 years' experience; steady and reliable; permanency preferred. Davies, 1 Woodlands Terrace, Cross Hands, near Llanelly.

ASSISTANT; unqualified; Counter, N.H.I., Photo expert, Stock, etc. W. E. Carter, 33 Chancellors Road, Hammersmith, W. 6.

ASSISTANT or Locum; unqualified; town or country. Apply 30/13, Office of this Paper.

ASSISTANT, 32, unqualified, recently demobilised, married, abstainer, eight years' pre-war experience in country middle-class, Dispensing, Photographic businesses, desires similar situation; permanency; last post 5½ years; any distance. Apply 30/33, Office of this Paper.

ASSISTANT; disengaged middle March; 25 years' London and Provincial experience; tall, single, 40. Apply P.C.B. 42/50, Office of this Paper.

ASSISTANT or Manageress; qualified; 41; temporary or otherwise; Retail, N.H.I., and Surgery experience; disengaged; tall. Saul, 30 Avondale Road, Chesterfield.

ASSISTANT; unqualified; chiefly N.H.I. Dispensing, Counter; age 50; disengaged for demobilised man taken back; please state salary; London only. "Hodie," 15 Fletching Road, Clapton, E. 5.

ASSISTANT; unqualified; Counter; quick, accurate Dispeuser; disengaged. Apply 28/16, Office of this Paper.

ASSISTANT; unqualified; 34; single; 15 years' experience; excellent references; recently demobilised. Salary and particulars to Lamb, H. J., Norman Villas, Normanton, Yorks.

ASSISTANT; unqualified; knowledge of Dispensing and Photography; good references; Eastern Counties preferred; height 5 ft. 8 in.; disengaged. C. S. Hart, 108 Lincoln Street, Norwich.

ASSISTANT; unqualified; ten years' experience; good reference; disengaged. R. Fairburn, Killamarsh, Sheffield.

ASSISTANT, 35, unqualified, town and country experience, desires permanency; excellent testimonials. "Statim," 10 Terrace Road, Upton Manor, E. 13.

ASSISTANT; unqualified; 28; married; good-class Dispensing and Counter experience; energetic and willing; disengaged. "A. L.," Wilder, Gwynne Road, Upper Parkstone, Dorset.

ASSISTANT (Managing); 32; unqualified; married; thoroughly competent; used to brisk trade; excellent references; live on premises preferred. "Statim" (31/18), Office of this Paper.

ASSISTANT; recently demobilised; 25; 6 years' experience. Apply, stating salary, etc., 31/14, Office of this Paper.

ASSISTANT; 23; unqualified; 5 years' experience Dispensing Counter, General; disengaged; Kent or Sussex; state salary. Apply "Vincent," 37 Franklin Place, Chichester.

ASSISTANT or Drug-Store Manager; age 46; all-round experience; Extractor. Foster, 309 Wellingborough Road, Northampton.

ASSISTANT; married; 33 years; 6 ft.; good Dispenser; excellent Salesman; Photographic, Extractor; good all-round experience; locum if desired. Tocs, 188 Northdown Road, Margate.

ASSISTANT (19); unqualified; 5 years' all-round experience Dispensing, Counter work, Photographics, Veterinary; height 5 ft. 9 in.; disengaged March 6th. Full particulars to Hobbs, c/o Chemist, Nevin, Carnarvonshire.

ASSISTANT, qualified, desires post in suburban or country Retail; Sheffield district preferred; good references. Apply Ernest Northend, 10 Conduit Road, Sheffield.

ASSISTANT (29) desires change; high-class experience and references; town or country; not afraid of work. 33/9, Office of this Paper.

ASSISTANT, unqualified, 32, married. good all-round experience, recently demobilised, desires situation; town or country. 32/23, Office of this Paper.

ASSISTANT, unqualified, 26, desires situation; 9 years' experience in all branches; excellent references; kindly state salary. Apply 33/35, Office of this Paper.

ASSISTANT, unqualified, West-End experience, seeks permanency; state hours and salary. Apply 33/33, Office of this Paper.

ASSISTANT, experienced, excellent references, unqualified, requires permanency or Locum; London or suburbs. Apply 33/20, Office of this Paper.

BIRMINGHAM.—Discharged soldier, energetic; good knowledge Drug trade; capable taking charge Retail Stores, or position in Wholesale house; Clerical duties if necessary. 32/30, Office of this Paper.

BLACKPOOL OR DISTRICT.—Experienced Assistant, exceptional references, wide experience, desires post, or would accept temporary or Locum work. Apply 28/21, Office of this Paper.

BOURNEMOUTH or District.—Dispenser (Hall) desires post in March; excellent testimonials and experience; interview; state salary. Miss Pallister, "Mona," Lymington, Hants.

BRISTOL.—Good Dispenser, unqualified, abstainer, smart Counterman, energetic, desires post in Bristol district. 33/36, Office of this Paper.

CHEMIST, just disposed of own business to company and not wishing to remain with new owners, desires Management for private Chemist, or partnership, or purchase of such a business outright; N.E. Counties preferred; 38; married; Optics, Photographic, and all branches. Apply 31/13, Office of this Paper.

CHEMIST'S Assistant; age 20; Dispensing, Counter work; Wholesale and manufacturing; part-time (day). Palley, 20 North Villas, Camden Square, N.W.

DISPENSER (lady) desires part-time engagement; g End experience; Photography, Counter; Londoa dis ferred. "L. J.," 103 Dalmeny Avenue, Norbury, S.W.

DISPENSER, and all-round experience; 25 years; fr 1. C. S., c/o M. Wyatt, 58 Gipsy Hill, S.E.

DISPENSER; recently demobilised; eight years' ex prefer Doctor or Institution. "R.," 5 Clifton Barnstaple.

EDINBURGH.—Young lady, 28, having Apothecari qualificatiou ie Dispensing, commencing medical s April, wishes for permanent post with Doctor or Chem time during vacations, part-time during terms; tim arranged; could start March 16th. Apply 23/23, Offic Paper.

ELDERLY Manager, small Retail; varied experience to try; with house accommodation, but not essential. " Grange Cottage, Grange Lane, Winsford, Cheshire.

ELDERLY, qualified, wishes situation as Manager; if r wife could assist; good experience; able to work up; must have house accommodation; healthy London d 20 miles out; wanted end March; both have excellent r 31/37, Office of this Paper.

EVENINGS from 5.30, Saturdays from 3, or all d quired; Minor Student; 35; thoroughly capable an enced; five years' Continental; Counter or Dispeasing moderate. "Student," 97 Bedford Road, Clapham.

EVENINGS, half-day Saturdays, Sundays; Dispensi Counter work, etc.; highest West-End testimonials dent," 6 Lamb Street, E. 1.

EX-SERVICE man requires situation; good Compoua Storekeeper, Photographer, and X-ray; excellent re Deeley, 30 Rochester Avenue, Rochester, Kent.

EXPERIENCED Lady Pharmacist (32), qualified, goo ledge of Retail business, languages, seeks permanen Speenham Road, Brixton, S.W. 9.

EXPERIENCED, unqualified Assistant; permanency; only; can manage. Write W. P., 72 Tremadoc Roa ham, S.W.

FRANCIS & CO., Chemists, Wrexham, can, with co reoommend a qualified Assistant; demobbed, tall, enced. Apply J. A. Jones, Aldersey House, Hightown, W

IMPROVER, age 16½ years, Chemist's son, with some ex in Dispensing. Horace Rugg, 70 High Street, R Herts.

LADY Assistant, 24, experienced, desires post in Devon preferred). L. Williams, 17 Coombe Road, Teig Devon.

LADY Assistant; indoors preferred; 12 months' experi London. "C. S." (32/33), Office of this Paper.

LADY Dispenser (Hall) desires post; experienced. Miss Red Cross Hospital, Sudbury.

LADY Dispenser (Hall), three years' Hospital experie quires post, Doctor or Institution, in vicinity of B Miss Welles, 24 Marine Square, Brighton.

LADY Dispenser (Hall training) requires post with Do in Institution. Apply 30/34, Office of this Paper.

LADY Dispenser, unqualified, requires work, preferably other Dispenser is kept; in or near London. 32/14 of this Paper.

LADY Dispenser, thoroughly experienced, desires post; ence given to high-class Pharmacy, or Doctor. 32/32 of this Paper.

LADY Dispenser-Bookkeeper; Hall; experienced; Doctor stitution. Apply 15/26, Office of this Paper.

LADY, Hall, experienced, desires post in Liverpool. 28/30, Office of this Paper.

LADY, Ph.C., wide Retail and Hospital experience, ex references, desires post. Apply 31/15, Office of this

LOCUM; qualified; many years' experience. "Pharmacist Durham Road, Sparkhill, Birmingham.

LOCUM; thoroughly experienced; Major; exceptional refe abstainer. Dear, 111 Royal Parade, Eastbourne.

LOCUM or temporary; booking dates; take charge; wi perience. Apply 28/210, Office of this Paper.

LOCUM; disengaged; booking forward; qualified; terms rate; 53; country; first-class experience and best refe energetic; Photography and Optics. Dewey, 4 Montague G Wallington, Surrey.

LOCUM; experienced town or country; disengaged; h references. J. S., Central Hotel, High Street, Sheffie

LOCUM or Manager, qualified, 43, disengaged; moderate thoroughly experienced Retail and Dispensing. "St 11 Laurie Avenue, Burford Road, Nottingham.

I or permanency.—Woman Pharmacist; four years' experience, Retail and Institutional, age 22, desires post. Office of this Paper.

I or temporary; 33; qualified; capable; reliable; disengaged until April 15th; highly recommended. 32/210, Office Paper.

I, well recommended; splendid references; Spring terms 10s. per week; fare both ways, London. "Statim" Office of this Paper.

AGER, small Drug Store; age 36; unqualified; abiner; many years varied experience; good references; red; state salary, etc. "Manager" (28/31), Office of per.

AGER; 47; qualified; best experience and references; toto, Dental, Optics, Bookkeeping; view to purchase after tertained if desired. "Pharmacist" (21/36), Office of per.

AGER; qualified; disengaged; married; Locum or perianency; long experience all branches; good Prescriber, Window-dresser; town or country. D. O. C., 26 Fox Hill,

AGER; qualified; Locum or permanency; first-class experice; excellent references; Lancashire or Yorkshire pre- "Pharmacist," 53 Fairlawn Street, Manchester.

AGER; qualified; 31; tall; abstainer; good Salesman; perienced Counter, Dispensing, and Photography; good es; disengaged March 8th; London only. K., 43 Grafton cton, W. 3.

AGER, qualified, 47, active, thoroughly experienced in ery branch, West-End and Store experience, highest refer- would work up neglected business. 33/6, Office of this

AGER, Drug Stores; enterprising; excellent references; ghly recommended; real good experience London and pro- "Virol" (33/240), Office of this Paper.

.O. (Irish), Dispensing 4½ years, wishes to complete time in high-class house; two years' superior nce; Liverpool preferred; 22; Preliminary passed; terms, pply 27/10, Office of this Paper.

-TIME; Dispenser; lady; Hall qualification; any hours fore 4 p.m. L. A. S., 1 Savernake Road, Hampstead,

-TIME Dispensing required; morning, or afternoon and enings; experienced. "H.," o/o Mrs. Wallace, 15m Chapet, S.W. 1.

RMACEUTICAL Chemist (28) desires situation as qualified sistant. State full particulars to 33/32, Office of this

RMACIST, 30, tall, single, abstainer, requires position as anager early April; first-class Dispensing experience; knowPhotography; East Yorkshire or seaside preferred. Apply Office of this Paper.

RMACIST, 30, good appearance, Scottish and English exrience in high-class Retail and Dispensing, desires posiManager; town or country; South of England preferred; t references. Apply 28/15, Office of this Paper.

RMACIST; Minor; 48; demobilised; 5 years Sergt.-Disenser R.A.M.C.; experienced; temporary or permanent. n," 172 Albany Street, N.W.

RMACIST seeks change; knowledge of French. H. B., 19 Hackney Road, E. 2.

RMACIST, Manager; energetic, up to date; first-class Westnd and Suburban experience; excellent references. 31/39, f this Paper.

LIFIED; 26; Locum (temporary) or Manager; best ondon and provincial experience; disengaged; please state J. Cohen, 83 Spencer Place, Leeds.

LIFIED, 27, as Assistant or Manager; well experienced in ood-class Dispensing business. Collis, c/o Wokes, Pharmal Chemist, Grassendale, Liverpool.

LIFIED Chemist desires permanency; disengaged; abstainer; ingle; 12 years' experience as Manager; outdoors; £5 10s. 30/8, Office of this Paper.

LIFIED, 24, good eduoation, desires post with high-class rm; salary no consideration provided there is possibility ing good experience. Apply 28/20, Office of this Paper.

LIFIED lady Dispenser, ex-V.A.D., requires position, wholer half-day; x-ray experience. Write Box 741, Sells Adver- Offices, Fleet Street, E.C. 4.

LIFIED lady Dispenser requires position with Doctor r Hospital, in or near London. Ovington Jones, Cleadon Hampton Hill, Middlesex.

QUALIFIED, 25, married, desires position as Assistant, with view to re-establishment in business after demobilisation; experience as Manager previous to war service; good all-round experience; living accommodation advantage. Day, 14 Clifton Road, Weston-super-Mare.

QUALIFIED Manager, disengaged; 37; tall; good address; varied experience; temporary or permanent; 10 years' reference. Monk, 105 Victoria Avenue, Margate.

QUALIFIED Manager; first-class references; West-End and Suburban experience; energetic and up to date. W. E., 14 Cornford Grove, Balham, S.W. 12.

QUALIFIED, as Assistant or Branch Manager, disengaged. Wicks, 30 Wymering Mansions, Elgin Avenue, W. 9.

QUALIFIED, 26, tall, single, requires position as Assistant; any district; disengaged. Apply 32/3, Office of this Paper.

RELIABLE Assistant; unqualified; 33; all-round experience; excellent references; permanency. Apply 30/23, Office of this Paper.

SENIOR Assistant; 40, tall; 25 years' high-class Store and Dispensing experience; disengaged middle of March. Apply P.C.B. 42/5, Office of this Paper.

SENIOR or Manager; unqualified; 38; married; 24 years' Counter, Dispensing, Photographic; excellent references. Apply 32/12, Office of this Paper.

STAFFORDSHIRE.—Unqualified Assistant (23), good Salesman, Photography, energetic, desires post. H. L., 24 May Street, Edgewick, Coventry.

STUDENT-ASSOCIATE desires position as Junior or Improver; 21; tall; well educated; excellent references; Somerset preferred, but not essential. Triekey, Bishops Lydeard, Taunton.

SUMMER or permanent engagement; thoroughly competent; London, provincial; energetio and trustworthy Pharmacist. Williams, 14 Penn Road, Wolverhampton, Staffs.

UNQUALIFIED (33), at liberty March 8th; temporary or permanent; London or North. Nelson, 3 Bank Buildings, Whetstone, N. 20.

UNQUALIFIED Assistant, 26, desires situation; Birmingham district preferred, but not essential; excellent references; disengaged; kindly state salary. Apply 33/350, Office of this Paper.

WANTED, part-time Dispenser for Tuesdays, Wednesdays, and Thursdays; 5 or 6 to 8. Jones, Pharmacist, 4 Thayer Street, Manchester Square, W. 1.

YOUNG lady, aged 19, with about three years' experience, would like situation with Chemist or Doctor as Dispenser; quick and accurate, and Hall qualification; North London, City, or West-End preferred; interview. Apply "M. H.," Norfolk House, Danvers Road, Hornsey, N. 8.

YOUNG lady requires situation as Dispenser to Doctor or Institution. Apply 28/29, Office of this Paper.

WHOLESALE.

ADVERTISER requires position in Works as Manager or Assistant; Pills, Tablets, Lozenges, Pastilles, Fluid Drugs, Packed Goods, and Toilet Products; good organiser, control staff, introduce new lines: good knowledge of machinery; age 30; married. Apply 32/6, Office of this Paper.

CHEMIST, Works Manager, seeks responsible post with Manufacturing firm; F.I.C., Ph.C.; experienced in Research, Analysis, and running of plant, Foodstuffs, Drugs, Oils and Fats, Soaps, Glycerine, and Chemicals; at home or abroad. Apply 17/36, Office of this Paper.

CAPSULE-MAKER (Machine), experienced, desires change; has good knowledge of Lozenge-making. Apply 32/8, Office of this Paper.

EXPERIENCED and successful Traveller desires to represent first-class house in Drugs or Proprietaries; South Coast and South Wales; now and for years with well-known firm, but desires change; highest references. P.C.B. 42/34, Office of this Paper.

FOREMAN Coater requires situation; 12 years' first-class experience in London and North and South; Sugar, Chocolate, Pearl, Gelatinoid, Silver, and Gold. A. Goldstone, 11 Hillery Road, Walworth, London, S.E.

GENTLEMAN, experienced Retail Pharmacist, all branches, Photographio, Optics, having disposed of business, desires position as Representative with Wholesale house. Apply 23/24, Office of this Paper.

PHARMACIST, 31, experienced Retail, desires post in Wholesale in Manufacturing house. Apply 33/37, Office of this Paper.

PHARMACIST, young, smart, desires position, any capacity, with Wholesale House. Apply 23/22, Office of this Paper.

PRINCIPAL Manager, Wholesale Drug or Proprietary Sales Department; experienced Advertiser; salary £500. P.C.B. 42/22, Office of this Paper.

QUALIFIED lady Chemist, with excellent experience in manufacture of Perfumery and Toilet Preparations, desires post in Laboratory of a Perfumery firm. Apply 31/21, Office of this Paper.

REPRESENTATIVE, with sound connection, Chemists, Southern Counties, desires change; (not Face Creams) any proprietary line, or first-class firm; salary and expenses; references. Apply 28/14, Office of this Paper.

REPRESENTATIVE, age 26, requires post with Wholesale house having Northern connection. Apply 30/21, Office of this Paper.

TABLET- and Pill-maker or Stock- and Time-keeper; age 38; experienced; 18 years' Wholesale; London district. Newnham, 29 Herbert Street, Kentish Town, N.W.

WET Counter; experienced Assistant; disengaged. W. E. Carter, 33 Chancellors Road, Hammersmith, W. 6.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

REFRACTIONIST desires a position in India; could manage or organise Sight-testing and Jewellery Department of Chemist's or other large stores. Apply 23/27, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—100 Allenbury "O" Prefs., 17*s.* 3*d.*, c.d.; 200 7% Preferred Ord., 20*s.* 9*d.*, c.d.; 85 W. J. Bush £5 Prefs., 72*s.*, c.d.: 300 Farrow's Bank, 10*s.* paid, 9*s.* 4½*d.*; 150 Genatosan £1 x 8% Prefs., 20*s.* 7½*d.*; 100 Idris "A" 6% Prefs., 13*s.*; 200 G. B. Kent Participating Prefs., 16*s.* 6*d.*, dividend 6% next July; 250 Lewis & Burrows 6% Prefs., 15*s.* 4½*d.*; 135 Peek Frean Prefs., 16*s.*; 200 Parkes Drug 6% Prefs., 15*s.* 4½*d.*; 250 Stevenson Howell Prefs., 13*s.* 4½*d.*; 300 A. J. White, 9*s.* 10½*d.*; 150 Wright Layman Prefs., 18*s.* 6*d.*, c.d.

Shares Wanted (subject).—10 to 50 Bleasdales, say price; 130 Allenbury "B" Prefs., 16*s.* 6*d.*; Camwal Ord. and Prefs.; Idris Deb. 62; John Knight Ord.; A. J. White.

Lots divided. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

ABOUT 9 dozen Bone Tooth Brushes, each 4*s.* 6*d.*, 6*s.* 6*d.*, 8*s.* 6*d.* doz.; one gross Ladies' Dressing Combs, 8 in., 8*s.* 6*d.*, 11*s.*, 15*s.* doz.; six dozen Gent.'s, 7*s.*, 8*s.* 6*d.* doz.; nine dozen Dust Combs, each 4*s.* 6*d.*, 6*s.*, 8*s.* 6*d.* doz.; one gross Nail Brushes (assorted), 6*s.*, 7*s.* 6*d.*, 10*s.* doz.; six doz. Nail Files (carded), 4*s.* 6*d.*, 6*s.* 6*d.* doz.; sample dozens supplied. F. Aldous, 48 Harpenden Road, West Norwood, S.E. 27.

ABOUT 12 gross 1-oz. celluloid-top pots good Vanishing Cream, 84*s.* gross; 2 gross 2-oz. metal screw Pomade Jars ditto, 108*s.* gross; 12 gross bottles nicely perfumed Hair Fixative Cream, 84*s.* gross; 1 gross 2-oz. Brilliantine, 84*s.* gross; 3 doz. 1*s.* 6*d.* boxes Face Powder, 7*s.* 6*d.* doz.; 5 doz. 2*s.* 6*d.* boxes ditto, 13*s.* doz.; lines unlabelled, for private brands. Apply P.C.B. 42/9, Office of this Paper.

FOR Sale, about 250 square soldered Tins; top 11⅜" square, depth 12¾", 3½" level lid in corner, wire handle on top; strong, clean, good condition; what offers? Foster-McClellan Co., 8 Wells Street, Oxford Street, London, W. 1.

FOR Sale, Gardner's Mixing and Sifting Machine, capacity 30 lb., hand power, with extra Sieve; also 4 × 30-gallon Mixing Pans, Doulton's, with Taps and Covers; as new. Write, Gill, 26 Ohurston Avenue, Upton Manor, E. 13.

NATIONAL Cash Register (new), £90; list price £93 10*s.*; style 745; mahogany finish. Simpson, Chemist, Ibstock, near Leicester.

PETROLEUM Jelly, Yellow; about 2 tons for Sale; packed in 3¼-cwt. barrels. Timothy White Co. Ltd., Portsmouth.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOP FITTINGS.—Following bargains for Sale: 8' Wall Case, condition as new; excellent Cashier' new; Mahogany Wall Cases, 8' 0", 7' 0", 6' 0", 5' 0", long by 9' 0" high; bent plate-glass Counter Showca 5' 0", 6' 0", and 8' 0" long; several Dispensing Screens Salesman Cases, various sizes, etc. Write wants, Phil & Sons, Ltd., 93 Old Street, London, E.C. 1.

TINCTURE Press, hydraulic; capacity 8 to 12 gallon 30 to 45 tons; box mounted on wheels, hand po state condition. Apply 28/24, Office of this Paper.

25 CHEMIST'S Laboratory Balances, Fairbank's N a few in stock, to clear; £4 10*s.* each complet Bros., 1 New Oxford Street, London, W.C. 1.

16 DOZ. Bone Tooth Brushes, to clear, 6*s.* doz. polished back, 7¾" by 2¼" bristle Clothes Brus 21*s.* doz.; 11 doz. Child's Tooth Brushes, bone, given 3*s.* 9*d.* doz.; 10 doz. Jap Shaving Brushes, not anthra 12*s.* doz.; 3 doz. only solid ebony Military Hair Bru doz.; 2½ doz. antimony-backed Military Brushes, cheap lot. Apply P.C.B. 42/6, Office of this Paper.

EXCHANGE COLUMN.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

CODEIN Phosph., ½ oz.; Bismuth. Salicyl., 4 oz. Couch, Chippenham.

FOR Sale, 14 lb. Neutral Oxalate Potash Crystals; 20 lb Wax. Best offers to Shillcock, Bromley, Kent.

1 LB. each Hydrarg. Sulph. Alb., 6*s.* 6*d.*; Hexami Salol, 7*s.* 6*d.*; 5 lb. Ether .720, 3*s.*; 1 lb. Oleu 56*s.* 6*d.*; all per pound; carriage and bottles free Son, Weymouth.

WANTED.

WINCHESTERS required. Quotations to "R.," 29 For E. 15.

ALKANET-ROOT required. State quantity and price 42/8, Office of this Paper.

WANTED, Trial Case or Tray of Lenses; good pric Russell, Sidlesham, Chichester.

OPHTHALMOSCOPE, in good condition. Price and parti Arnold, New Sawley, Derbyshire.

OPTICAL Trial Case, in good condition. Davies, Chen High Street, Manor Park, E. 12.

WANTED, four bottles Kennedy's Medical Discovery; sta Lennon, 14 Lafone Street, London, S.E. 1.

REQUIRED, large Emulsifier, Mulser, and Churn, in g dition. P.C.B. 42/19, Office of this Paper.

WANTED, Reflex Camera, about ¼-plate, suitable for pre cheap. "M.P.S." 32/15), Office of this Paper.

THEOCIN Sodium Acetate (Bayer), Tablets or Powder. quantity and price to Richardson, Chemists, Blackpo

OPTICIAN'S Trial Case, small; Lenses numbered in dio with rims. Particulars and price to 30/32, Office Paper.

REQUIRED, Balance, Dispensary Scales, Water Oven, A and large Stoppered Bottles. P.C.B. 42/190, Office Paper.

BOTTLES required, 4-oz., 8-oz., 16-oz.; best white fl Quotations and samples to "R.," 29 Forest Lane, S E. 15.

WANTED, old "Chemists' and Druggists' Register" year between 1870 and 1880. Malins, 113 Commerci Macclesfield.

WANTED, Watson Microscope Objectives, ⅓" and ⅛" oil sion in double nosepiece condenser. Particulars to Office of this Paper.

KODAK Cameras, Films, Pot. Permang., Quinines, B Citrates, Bismuths, Mercurial Salts, Phenazon, Sulpho Caryoph., Lemon, Lavender, Spike, Peppermint, S Forryan, 75 Hinckley Road, Leicester.

WANTED, Radium Salt, pure or Residues, old Applicato Apply Harrison Glew, Radium Laboratories, 156 C Road, S.W. 9

OPTICAL books, Minor, Major, Chemists' books; send prep valuation, cash offers per return. Gower, Bookseller, taire Road, Clapham, S.W. 4.

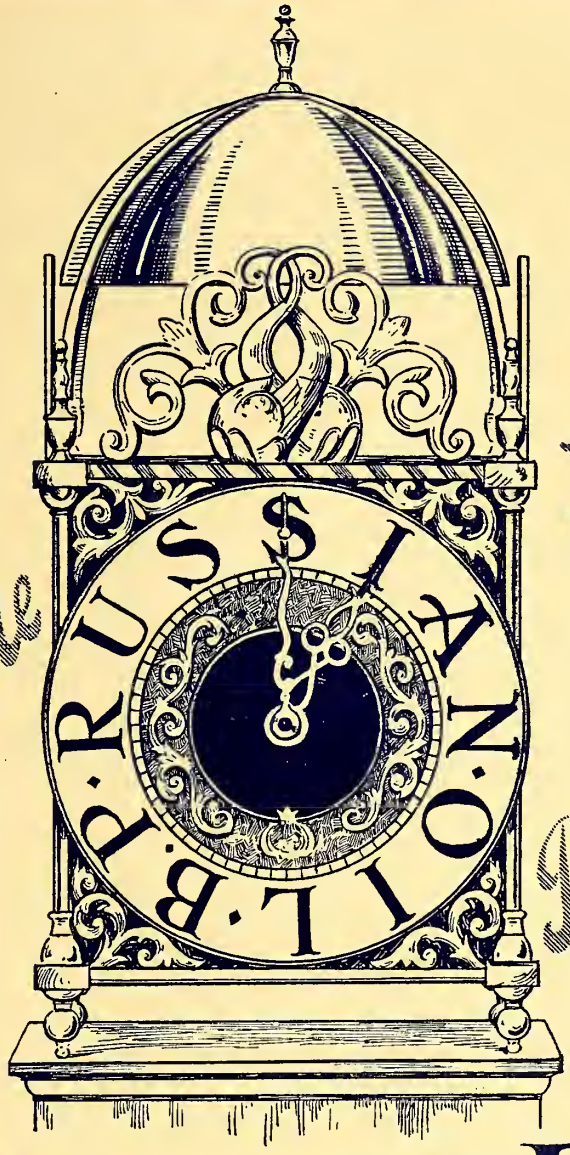
TABLET Machine wanted at once; half-inch single pun power; must be standard make and in perfect condition. Box 778, c/o Mitchell's Advertising Agency, 1 Snow E.C. 1.

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